

10IHSSF1044



DocumentID NONCD0002873

Site Name NELLO TEER QUARRY-DENFIELD

DocumentType Progress/Monitoring Rpt (PRGMON)

RptSegment 1

DocDate 5/27/2003

DocRcvd 2/20/2007

Box SF1044

AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

GROUNDWATER MONITORING REPORT

April 2003 Sampling Event

Former Nello Teer Quarry

5013 Denfield Street

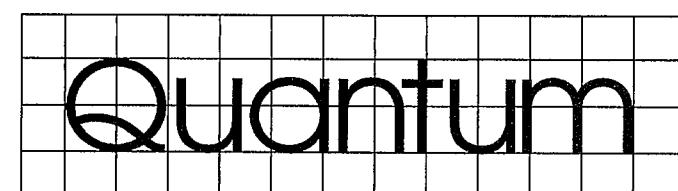
Durham, North Carolina

Prepared for:
Hanson Aggregates
2300 Gateway Centre Blvd.
Morrisville, North Carolina 27560

Prepared by:
Quantum Environmental, Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

May 2003

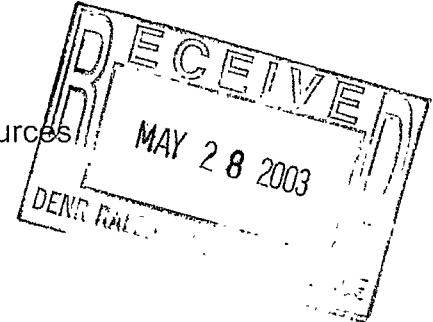
Quantum Project No. 013-94-012



Quantum Environmental, Inc.

May 27, 2003

Mr. Mark Powers
North Carolina Department of Environment and Natural Resources
UST Section
Raleigh Regional Office
1628 Mail Service Center
Raleigh, N.C. 27699-1628



Re: Nello Teer Quarry, Denfield Street, Durham, NC
Semi-Annual Groundwater Monitoring Report Submittal
Groundwater Incident No. 9357

Dear Mr. Powers:

On behalf of Hanson Aggregates, Quantum Environmental, Inc. (Quantum) is submitting the enclosed semi-annual groundwater monitoring report for the above-referenced groundwater incident. This report documents the groundwater conditions at the site in April 2003.

If you have any questions regarding the enclosed report please contact me at (919) 852-3595.

Sincerely,

QUANTUM ENVIRONMENTAL, INC.



Thomas W. Davis, L.G.
Project Hydrogeologist

L03-095

cc: Mr. Steve Edgerton, L.G., Hanson Aggregates
Mr. Eric Rice, DENR, Groundwater Section, RRO

Semi-Annual Groundwater Monitoring Report

Nello Teer Quarry
5013 Denfield Street
Durham, North Carolina
Durham County
Groundwater Incident #9357

Date of Report: May 2003

Site Priority Ranking: 110B

Responsible Party: Nello Teer Company
5013 Denfield Street
Durham, NC 27560
(919) 477-2413

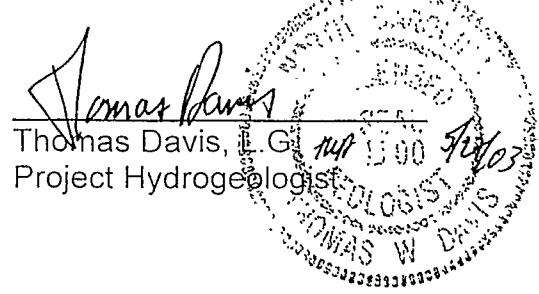
Current Owner: Hanson Aggregates
2300 Gateway Centre
Morrisville, NC 27560
(919) 380-2600

Consultant: Quantum Environmental, Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

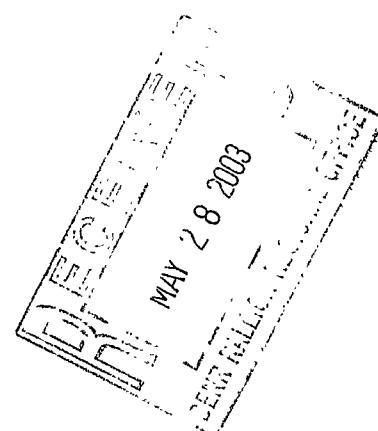
Release Information:

The soil and groundwater contamination by petroleum hydrocarbons appears to have originated from gasoline, diesel, and waste oil underground storage tanks (USTs) located at a former gas station on-site with multiple UST nests. Additional groundwater contamination, by chlorinated hydrocarbons, appears to have originated from an asphalt testing laboratory formerly operated by the North Carolina Department of Transportation (NCDOT).

Latitude: 36° 3.45' North Longitude: 78° 53.10' West


Thomas Davis, P.G. 114 1300 5/2003
Project Hydrogeologist

THOMAS W. DAVIS
P.G.
NORTH CAROLINA STATE BOARD OF GEOLOGISTS
5013 DENFIELD STREET
DURHAM, NC 27701-3525
919-477-2413



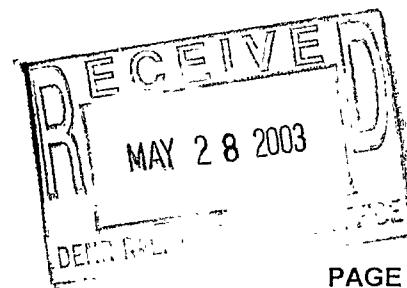


TABLE OF CONTENTS

SECTION	PAGE
1.0 Background.....	1
1.1 Site Location and History.....	1
2.0 Groundwater Sampling Methodology	2
3.0 Groundwater Sampling Results	3
3.1 Discussion of Sampling Results, Chlorinated VOCs.....	3
3.2 Discussion of Sampling Results, Petroleum Hydrocarbons.....	4
4.0 Remediation System Operation Summary	5
5.0 Summary and Recommendations	5

FIGURES:

Figure 1	U.S.G.S. Topographic/Site Location Map
Figure 2	Well Location Map
Figure 3	Potentiometric Surface Map, Shallow Aquifer
Figure 4	Potentiometric Surface Map, Deep Aquifer
Figure 5	Benzene Isoconcentration Map
Figure 6	Vinyl Chloride Isoconcentration Map
Figure 7	Trichloroethene Isoconcentration Map
Figure 8	1,1 - Dichloroethene Isoconcentration Map

TABLES:

Table 1	Well and Water Level Data
Table 2	Groundwater Sample Results, Shallow Wells
Table 3	Groundwater Sample Results, Deep Wells
Table 4	Summary of Groundwater Analytical Results
Table 5	Recovery Well Sampling Results

APPENDICES:

Appendix A.....	Well Construction Records
Appendix B.....	Laboratory Analytical Results and Chain of Custody
Appendix C.....	Groundwater Concentrations versus Time for MW-23 and MW-25

1.0 Background

On April 15 and 16, 2003, Quantum Environmental, Inc. (Quantum) personnel conducted groundwater-sampling activities from selected monitoring wells at the former Nello Teer (Teer) Quarry yard in Durham, North Carolina. This was done in accordance with the active remediation Corrective Action Plan (CAP) submitted to the North Carolina Department of Environment, Health and Natural Resources (DEHNR), Raleigh Regional Office in 1995. This report presents the sampling methodologies, groundwater flow directions, current extent of contamination, analytical results provided by Environmental Science Corporation (ESC), and recommendations. Recovery wells were also sampled during this event to better define the contaminant plumes and assess the progress of the site cleanup.

1.1 *Site Location and History*

The Nello Teer Quarry is an inactive aggregate mining and processing facility located on Denfield Street (State Road 1641) in Durham County, North Carolina (Figure 1). The property has been in operation as a crushed stone quarry and asphalt plant since the 1940s; however, at this time it is used for aggregate staging and equipment maintenance only, with no active mining operations occurring. Groundwater contamination found in a water supply well designated W-1 prompted the issuance of a Notice of Violation from the North Carolina Division of Environmental Management (NCDEM) under the North Carolina Groundwater Standards (15 NCAC 2L) in November, 1993.

The soil and groundwater contamination by petroleum hydrocarbons appears to have originated from gasoline, diesel, and waste oil underground storage tanks (USTs) located at a former gasoline station on-site (multiple UST nests). Additional groundwater contamination, by chlorinated hydrocarbons, appears to have originated from an asphalt-testing laboratory formerly operated by the North Carolina Department of Transportation (NCDOT). A Comprehensive Site Assessment Report, submitted by Geogenetics, Inc. in 1993 apparently indicated a large volume of contaminated soil existed at the site; however, many of Geogenetics conclusions were based on field organic vapor analyzer results only and were not confirmed with laboratory analysis of soil samples.

Quantum submitted a revised Corrective Action Plan (CAP) for soil and groundwater remediation along with applications for a permit to land apply hydrocarbon-contaminated soils and a discharge permit (NPDES) for treated groundwater. The permits were both issued and the land application of contaminated soil was completed in 1997. Quantum completed construction and started the groundwater remediation system in October 1997. To date over 12 million gallons of groundwater have been recovered and successfully treated by this remediation system. The week of February 17, 2003 a Hydrogen Release Compound (HRC[®]) pilot study injection event took place in a 40-foot by 40-foot grid

centered on MW-29 and MW-29i. This pilot study was conducted to quantify the effects of injecting this material into the subsurface to treat the chlorinated solvent plume present in this area. 3000 pounds of HRC® were injected into the subsurface through a total of 25 injection points. Approximately half of the injection points were 33 feet deep and the remaining injection points were 18 feet deep. Since the injection event, recovery wells RW-5, 6, 7 and 9 have not operated (except to collect samples for this report), to maximize the effects of the HRC® on the aquifer. These recovery wells will resume operation in the near future. Quantum will continue to monitor MW-18, 25, 25i, 29, 29i and RW-5 according to the monitoring schedule established during the permitting of the HRC® injection event. This additional sampling will allow Quantum to closely monitor the responses of the contaminants present in the aquifer to the addition of HRC®.

Eight monitoring wells for the shallow (water table) aquifer and eight monitoring wells for the deep (semi-confined) aquifer are present at the site. Shallow monitoring wells MW-25i, 29, and 29i were recently installed to monitor the affects of the HRC® pilot study injection event. Deep monitoring well MW-28D was also installed prior to the injection event. Construction records for all of these new monitoring wells are included in Appendix A. There are also nine recovery wells at the site. Four recovery wells are located near the old gasoline station on the southern portion of the site (RW-2, 3, 4 and 8), four are located at the site of the old asphalt plant on the northern portion of the site (RW-5, 6, 7, and 9), and one deep recovery well is located between the two source areas (RW-1). A Well Location Map is presented as Figure 2. All of the monitoring and recovery wells except RW-6 were sampled during this event. RW-6 was not sampled because it is currently not in operation.

2.0 Groundwater Sampling Methodology

Prior to collecting groundwater samples, water levels were measured in all monitoring wells using an electronic water level meter. The expansion plugs were removed from each well and enough time was allowed before collecting the measurements to permit the water level in the monitoring wells to equilibrate with the ambient atmospheric pressure. The measurements were collected to an accuracy of 0.01 feet and recorded in the field logbook.

In order to prevent cross contamination from one well to another while collecting water levels, Quantum personnel donned new, clean, non-reactive gloves prior to measuring each well. The electronic water level meter probe and tape were decontaminated following EPA protocol prior to collecting measurements from each well. Water level data from all wells gauged are presented in Table 1.

All monitoring wells sampled were purged by removing at least three well volumes of groundwater, or until the wells went dry, using new disposable bailers and new nylon rope.

MW-20D, MW-28D and MW-13 were purged and sampled using a cleaned Grundfos RediFlo 2 pump and new tubing. After allowing groundwater levels to equilibrate to or near static water levels after purging, water samples were collected from the following wells:

Shallow: MW-7, MW-17, MW-18, MW-25, MW-25i, MW-26, MW-29 and MW-29i
Recovery wells RW-5, RW-6 and RW-7

Deep: MW-1, MW-9, MW-11, MW-13, MW-15I, MW-20D and MW-23
Recovery wells RW-1, RW-2, RW-3, RW-8 and RW-9

The samples were placed in labeled, laboratory prepared containers, stored on ice in a cooler, and transported under Chain of Custody to ESC, a North Carolina certified laboratory. The samples were submitted for analysis using EPA Methods 601, 602, and 610, where appropriate. A copy of the Chain of Custody is included in Appendix B.

3.0 Sampling Results

Potentiometric data collected from the monitoring wells indicates that groundwater flow direction for the shallow aquifer is to the south with an average hydraulic gradient of 0.04 ft/ft. The groundwater flow direction for the deep aquifer was determined to be to the west with an average hydraulic gradient of 0.049 ft/ft. Table 1 presents a summary of the water level data from the latest sampling event. Figures 3 and 4 present potentiometric surface maps of the shallow and deep aquifers, respectively.

3.1 *Discussion of Sampling Results, Chlorinated VOCs*

Laboratory analytical results from the latest semi-annual sampling event continue to indicate that levels of chlorinated hydrocarbons detected in the groundwater monitoring wells vary across the site. Significant decreases were noted in response to the HRC® injection event pilot study, as evidenced by the reductions observed in MW-25 and MW-25i since the injection event the week of February 17, 2003. Monitoring wells MW-11 and MW-13 both continue to show no chlorinated VOCs (CVOCs) above their State standards. Monitoring well MW-17 experienced a significant decrease in vinyl chloride content, and MW-18 has not contained any detectable compounds above State standards since June 2002. Deep well MW-20D has experienced little change in total CVOC content since December 1997. MW-26 experienced a significant decrease in total CVOC content prior to 1995 and since June 2000 has not contained any CVOC compounds above their respective 2L Standards.

Similarly, the concentrations of CVOCs in the recovery wells continue to vary across the site. Significant decreases in CVOC content were noted in RW-5 and RW-9 since the

HRC® injection event. This trend should continue throughout the rest of 2003. RW-6 and RW-7 have experienced increases in total CVOC content since the injection event, but this is likely due to the fact that these recovery wells were taken out of service prior to the injection event. RW-7 was recently restarted and RW-6 will resume operation later this year. It is expected that the CVOC concentrations in these wells will continue to decrease once both these wells operate for some time.

Summaries of the current laboratory analytical results for the shallow and deep aquifers are presented in Tables 2 and Table 3, respectively. Figure 6 is the vinyl chloride isoconcentration map for the shallow aquifer. Figures 7 and 8 are the trichloroethene and 1,1-dichloroethene concentration maps, respectively, for the site. Table 4 provides the complete historical monitoring well data from 1993 through the current monitoring period, and Table 5 is a compilation of the analytical results for the recovery wells at the site. Overall, sampling results from the site indicate the gradual decrease in groundwater concentrations. This historic data has been plotted in a series of groundwater concentration versus time graphs illustrating the decrease in groundwater concentrations for representative monitoring wells at the site. These graphs are presented as Appendix C.

3.2 Discussion of Sampling Results, Petroleum Hydrocarbons

Laboratory analytical results from the April 2003 semi-annual sampling event indicate that levels of petroleum hydrocarbons detected in the groundwater monitoring wells vary across the site.

MW-20D contained no compounds above State 2L Standards while MW-23 experienced an increase in the benzene and IPE content since the September 2002 sampling event. MW-15I continues to show no evidence of petroleum compounds above the State 2L Standards. Recovery well RW-1 has not contained any petroleum compounds above 2L Standards since June 2000. Recovery well RW-2 has not contained any petroleum compounds above 2L Standards since January 2001, and only one compound has been detected above 2L Standards since 1994. Recovery well RW-3 contains naphthalene and 1-methylnaphthalene above State standards (there is no standard for 1-methylnaphthalene, thus no detectable concentration is allowed). Recovery well RW-4 was not sampled as it is not functioning currently. Recovery wells RW-5, 6 and 7 were not sampled for petroleum compounds and RW-9 did not contain any detectable concentrations of petroleum compounds.

A concentration map for benzene in groundwater can be found in Figure 5.

4.0 Remedial System Operation Summary

Operation of the remediation system continued without significant interruption. A variety of scheduled and non-scheduled maintenance activities were performed on the system during the period, including filter replacements (bi-weekly on average), and replacement and troubleshooting of various other remedial system items and components. A carbon change-out and stripper cleaning was also completed in May 2003.

5.0 Summary and Recommendations

A continued decrease in petroleum-based groundwater contaminant concentrations (primarily benzene) occurred during the monitoring period. This is undoubtedly due in large part to the operation of the remediation system. Quantum is proceeding with the design and installation of a soil vapor extraction system (SVE) in the vicinity of the former petroleum underground storage tanks. Once operational, the VES is expected to greatly assist in the remediation of the groundwater at the site.

Chlorinated hydrocarbon concentrations have significantly decreased in the area of the HRC® pilot study. This decrease is expected to continue throughout the majority of 2003 as the HRC® continues to degrade the CVOCs present in the area of the injection event.

Based on the results of the current semi-annual sampling event, Quantum recommends that operation of the groundwater remediation system continue until concentrations of petroleum compounds reach acceptable concentrations. As groundwater recovery in the shallow portions of the chlorinated plume is low, and the cost of maintenance of the system is fairly high, Quantum believes that HRC® treatment or some other method of remediation of this area will be preferable to bring about the desired reductions in contaminant levels in the chlorinated plume. The current groundwater recovery system is considered inadequate to complete the task of decreasing the levels of chlorinated VOCs. Quantum believes that as the system continues to operate and the contaminated subsurface in the area of the remediation shed is effectively addressed with SVE technology, the petroleum hydrocarbon plume should reach the remedial goal for this area and the system may be deactivated in the petroleum impacted portion of the site. Without additional treatment, Quantum anticipates less contaminant reduction in the chlorinated plume in the future, with a low potential to reach the 2L Standards. Quantum recommends that the use of Hydrogen Release Compound HRC® or some other method of treatment in this area be evaluated to expedite cleanup.

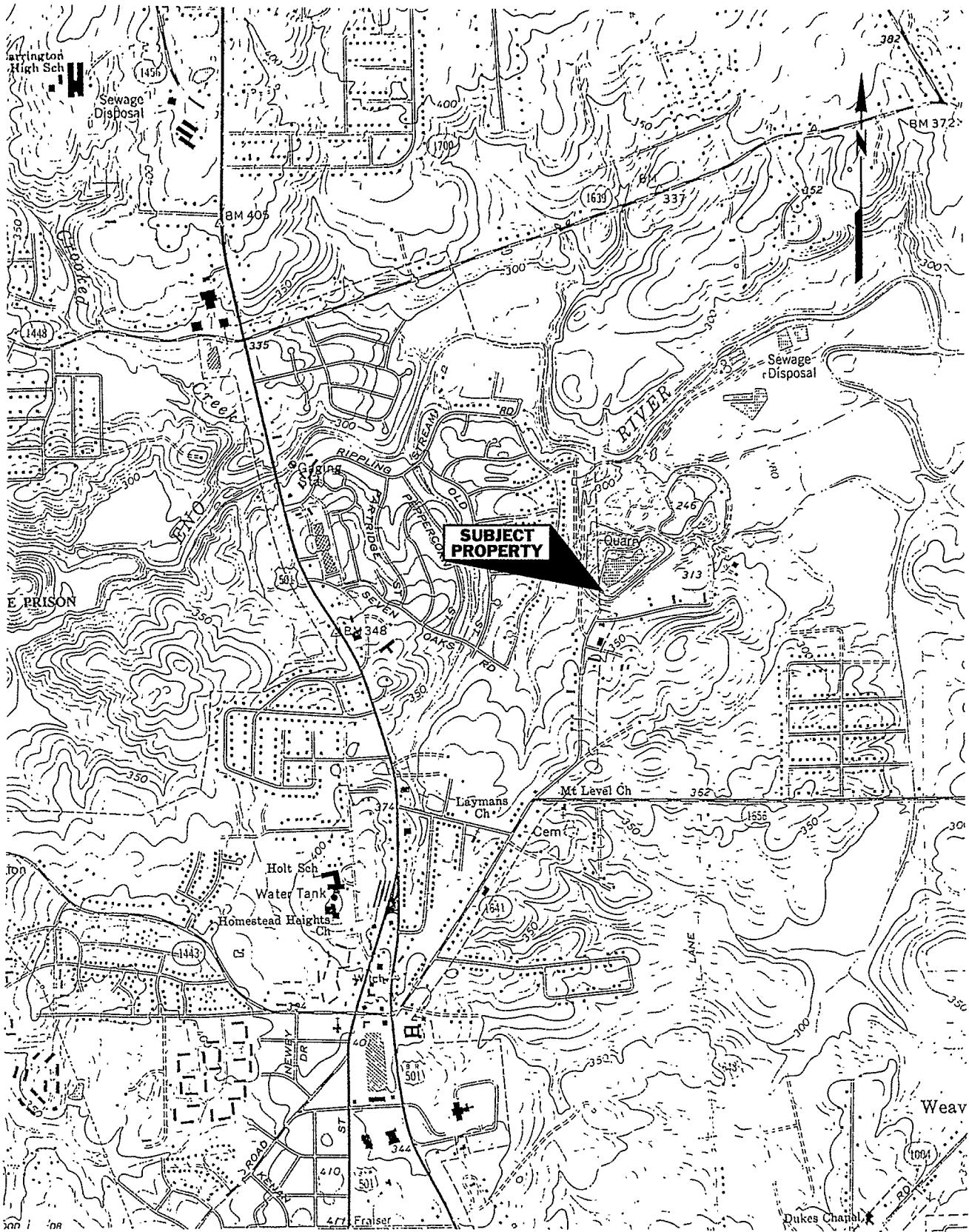
While an amended and more reasonable cleanup goal has been established for the petroleum plume area, no such amended remedial goals exist for the chlorinated

April 2003 Compliance Monitoring Event
Hanson Aggregates
Nello Teer Quarry

contaminant plume area. At the present time, DENR policy mandates that the 2L Standards must be attained in order to reach closure.

Figures

Figures

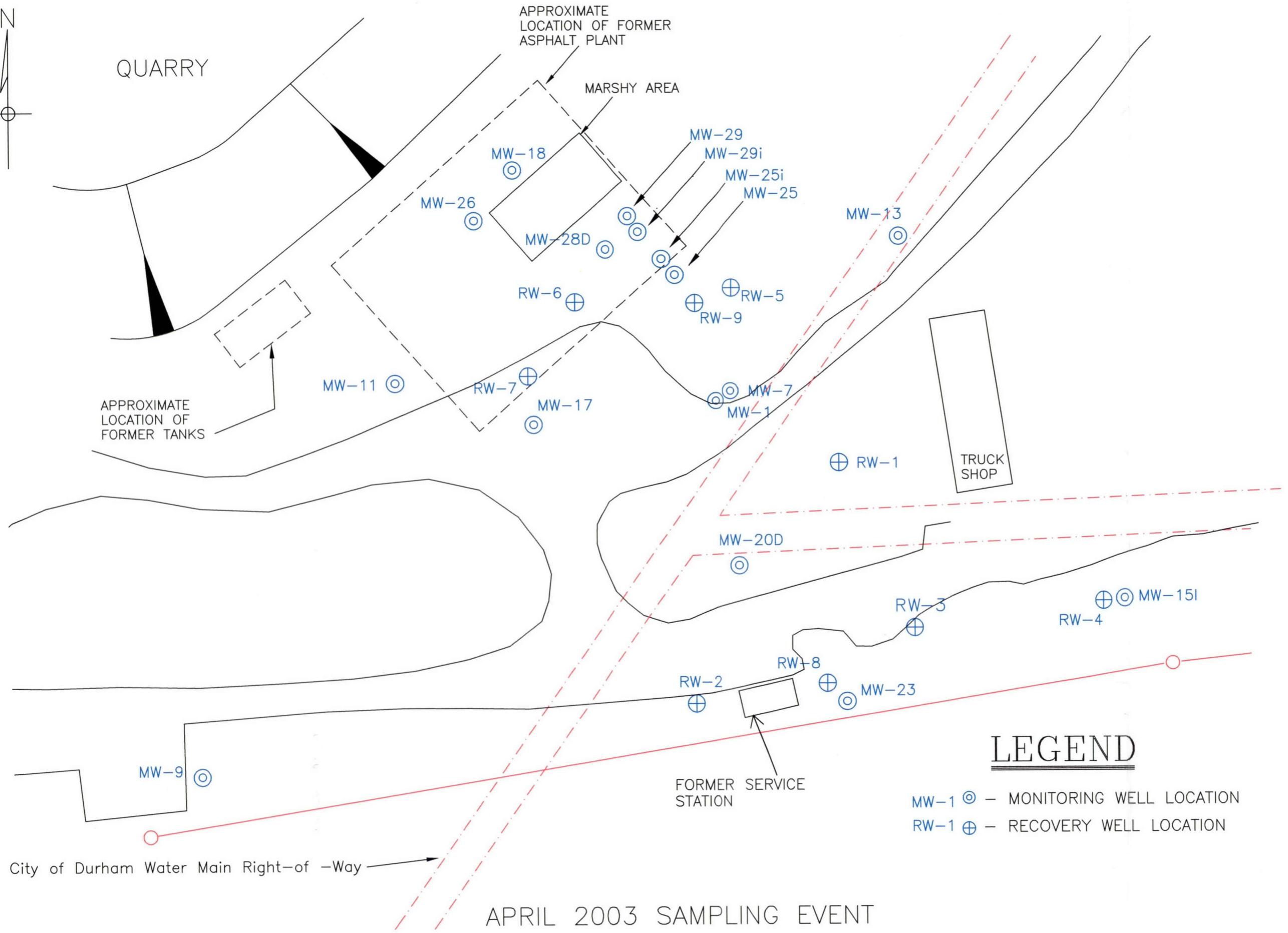


Site Location Map
Nello Teer Quarry
5013 Denfield St.
Durham, NC
Ref: NW Durham Quadrangle

Quantum
Environmental, Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607
Phone: (919) 852-3595 Fax: (919) 852-1997

FIGURE 1
SCALE: 1" = 2000'
Proj. No.: 0013-94-012

WELL LOCATION MAP
 NELLO L. TEER
 DURHAM QUARRY



Revisions	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Project No.	0013-94-012																			
SCALE:	1" = 75'																			
DWN	CHK	CLIENT APPROVAL																		
DATE	DATE	DATE																		
152	97																			

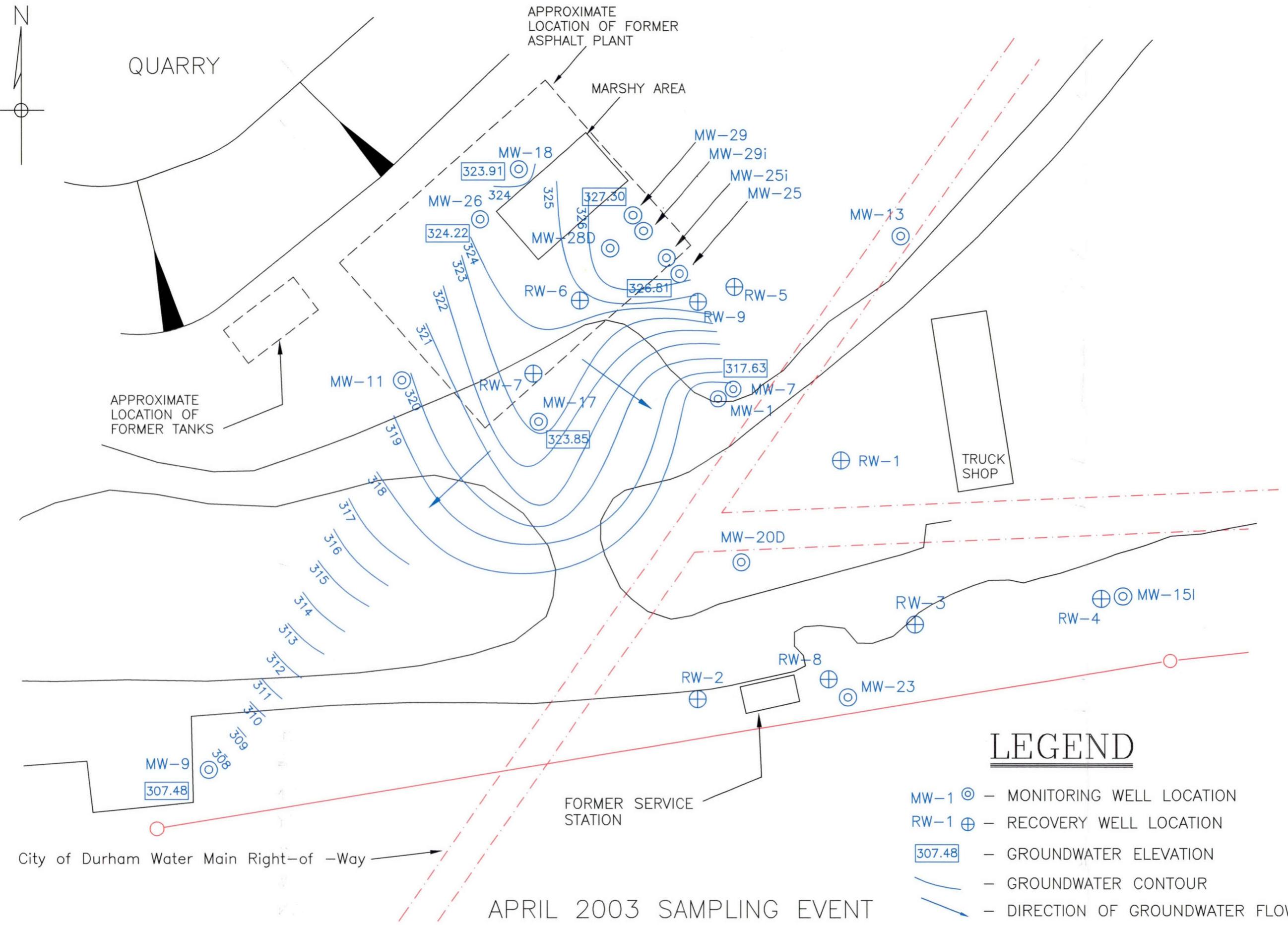
SHALLOW AQUIFER
POTENTIOMETRIC MAP
NELLO L. TEER
DURHAM QUARRY

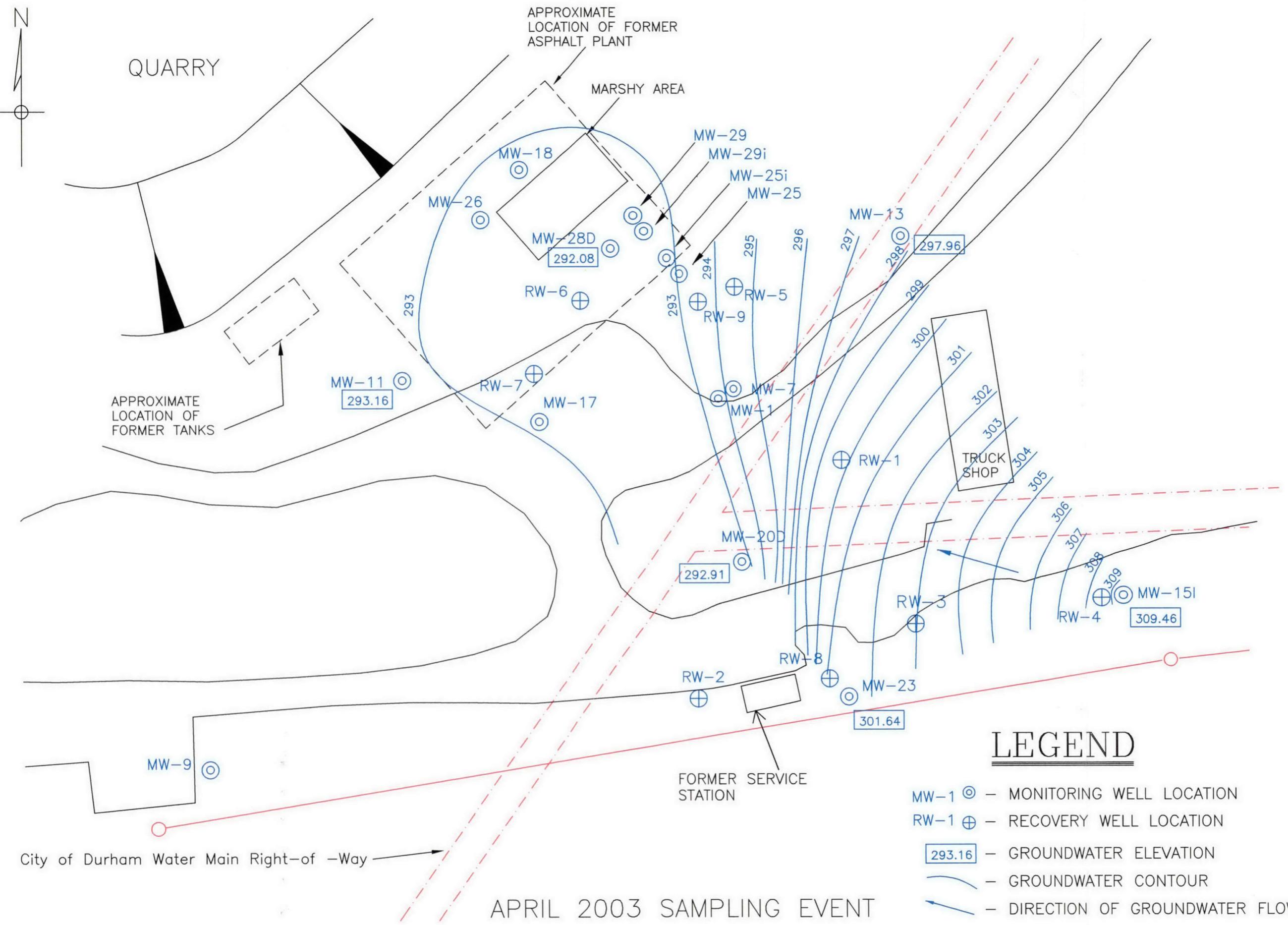
Revisions

Project No.
0013-94-012

SCALE: 1" = 75'

DWN	CHK	CLIENT APPROVAL
DATE	DATE	DATE
12	01	





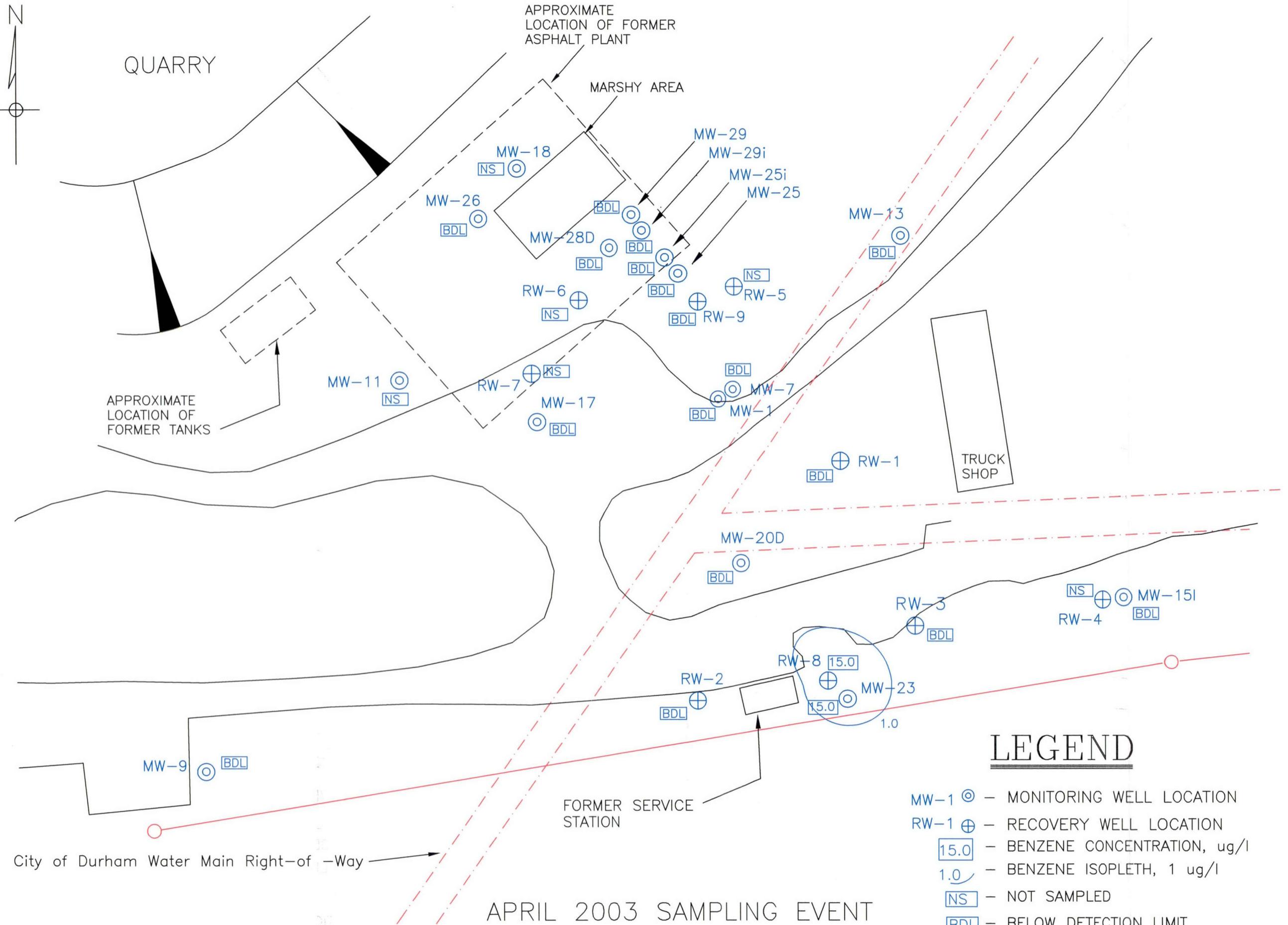
© Copyright 2001
 The use of these drawings without written permission from the architect/engineer is prohibited.
 Violators will be subject to legal action.

DEEP AQUIFER
 POTENTIOMETRIC MAP
 NELLO L. TEER
 DURHAM QUARRY

Revisions

Project No.
 0013-94-012
 SCALE: 1" = 75'

DWN DATE	CHK DATE	CLIENT APPROVAL DATE
12/01		

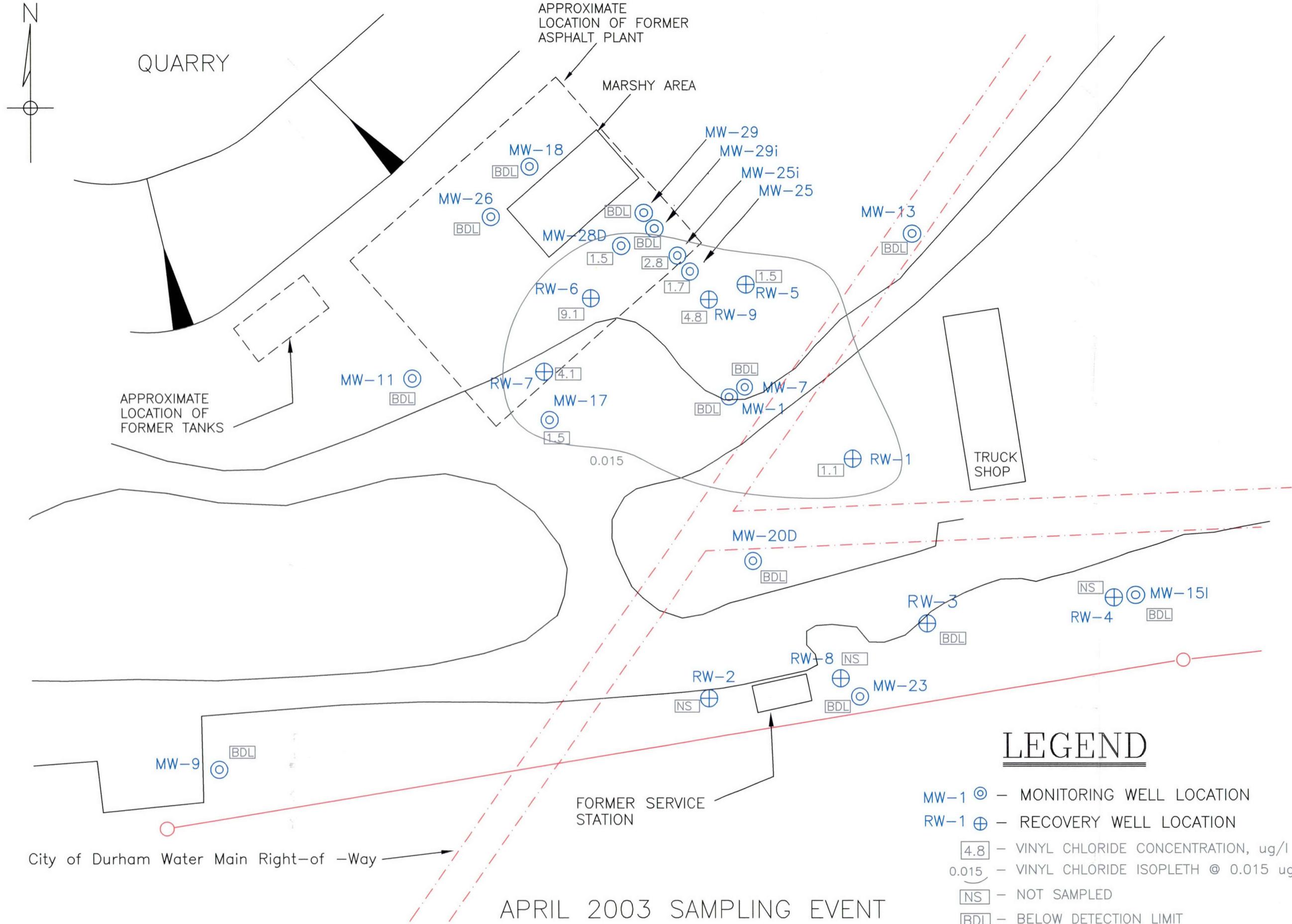


Quantum Environmental, Inc.
6001 Chapel Hill Rd. Suite 108
Raleigh North Carolina 27607
Phone: (919) 852-3595
Fax: (919) 852-1997

FIGURE 5

APRIL 2003
BENZENE PLUME
NELLO L. TEER
DURHAM QUARRY

Revisions
0000
0001
0002
0003
0004
0005
0006
0007
0008
0009
0010
0011
0012
0013
0014
0015
0016
0017
0018
0019
0020
0021
0022
0023
0024
0025
0026
0027
0028
0029
0030
0031
0032
0033
0034
0035
0036
0037
0038
0039
0040
0041
0042
0043
0044
0045
0046
0047
0048
0049
0050
0051
0052
0053
0054
0055
0056
0057
0058
0059
0060
0061
0062
0063
0064
0065
0066
0067
0068
0069
0070
0071
0072
0073
0074
0075
0076
0077
0078
0079
0080
0081
0082
0083
0084
0085
0086
0087
0088
0089
0090
0091
0092
0093
0094
0095
0096
0097
0098
0099
0100
0101
0102
0103
0104
0105
0106
0107
0108
0109
0110
0111
0112
0113
0114
0115
0116
0117
0118
0119
0120
0121
0122
0123
0124
0125
0126
0127
0128
0129
0130
0131
0132
0133
0134
0135
0136
0137
0138
0139
0140
0141
0142
0143
0144
0145
0146
0147
0148
0149
0150
0151
0152
0153
0154
0155
0156
0157
0158
0159
0160
0161
0162
0163
0164
0165
0166
0167
0168
0169
0170
0171
0172
0173
0174
0175
0176
0177
0178
0179
0180
0181
0182
0183
0184
0185
0186
0187
0188
0189
0190
0191
0192
0193
0194
0195
0196
0197
0198
0199
0200
0201
0202
0203
0204
0205
0206
0207
0208
0209
0210
0211
0212
0213
0214
0215
0216
0217
0218
0219
0220
0221
0222
0223
0224
0225
0226
0227
0228
0229
0230
0231
0232
0233
0234
0235
0236
0237
0238
0239
0240
0241
0242
0243
0244
0245
0246
0247
0248
0249
0250
0251
0252
0253
0254
0255
0256
0257
0258
0259
0260
0261
0262
0263
0264
0265
0266
0267
0268
0269
0270
0271
0272
0273
0274
0275
0276
0277
0278
0279
0280
0281
0282
0283
0284
0285
0286
0287
0288
0289
0290
0291
0292
0293
0294
0295
0296
0297
0298
0299
0300
0301
0302
0303
0304
0305
0306
0307
0308
0309
0310
0311
0312
0313
0314
0315
0316
0317
0318
0319
0320
0321
0322
0323
0324
0325
0326
0327
0328
0329
0330
0331
0332
0333
0334
0335
0336
0337
0338
0339
0340
0341
0342
0343
0344
0345
0346
0347
0348
0349
0350
0351
0352
0353
0354
0355
0356
0357
0358
0359
0360
0361
0362
0363
0364
0365
0366
0367
0368
0369
0370
0371
0372
0373
0374
0375
0376
0377
0378
0379
0380
0381
0382
0383
0384
0385
0386
0387
0388
0389
0390
0391
0392
0393
0394
0395
0396
0397
0398
0399
0400
0401
0402
0403
0404
0405
0406
0407
0408
0409
0410
0411
0412
0413
0414
0415
0416
0417
0418
0419
0420
0421
0422
0423
0424
0425
0426
0427
0428
0429
0430
0431
0432
0433
0434
0435
0436
0437
0438
0439
0440
0441
0442
0443
0444
0445
0446
0447
0448
0449
0450
0451
0452
0453
0454
0455
0456
0457
0458
0459
0460
0461
0462
0463
0464
0465
0466
0467
0468
0469
0470
0471
0472
0473
0474
0475
0476
0477
0478
0479
0480
0481
0482
0483
0484
0485
0486
0487
0488
0489
0490
0491
0492
0493
0494
0495
0496
0497
0498
0499
0500
0501
0502
0503
0504
0505
0506
0507
0508
0509
0510
0511
0512
0513
0514



LEGEND

- MW-1 ⊙ - MONITORING WELL LOCATION
RW-1 ⊕ - RECOVERY WELL LOCATION

[4.8] - VINYL CHLORIDE CONCENTRATION, ug/l
0.015 - VINYL CHLORIDE ISOPLETH @ 0.015 ug/l

[NS] - NOT SAMPLED

[BDL] - BELOW DETECTION LIMIT

AI RIE 2005
VINYL CHLORIDE PLUME
NELLO L. TEER
DURHAM QUARRY

Quantum Environmental, Inc.
6001 Chapel Hill Rd. Suite 108
Raleigh North Carolina 27607
Phone: (919) 852-3995 Fax: (919)852-1997

FIGURE 6

FIGURE 6

FIGURE 7

Quantum Environmental, Inc.
6001 Chapel Hill Rd. Suite 108
Raleigh North Carolina 27607
Phone: (919) 852-3595 Fax: (919) 852-1997

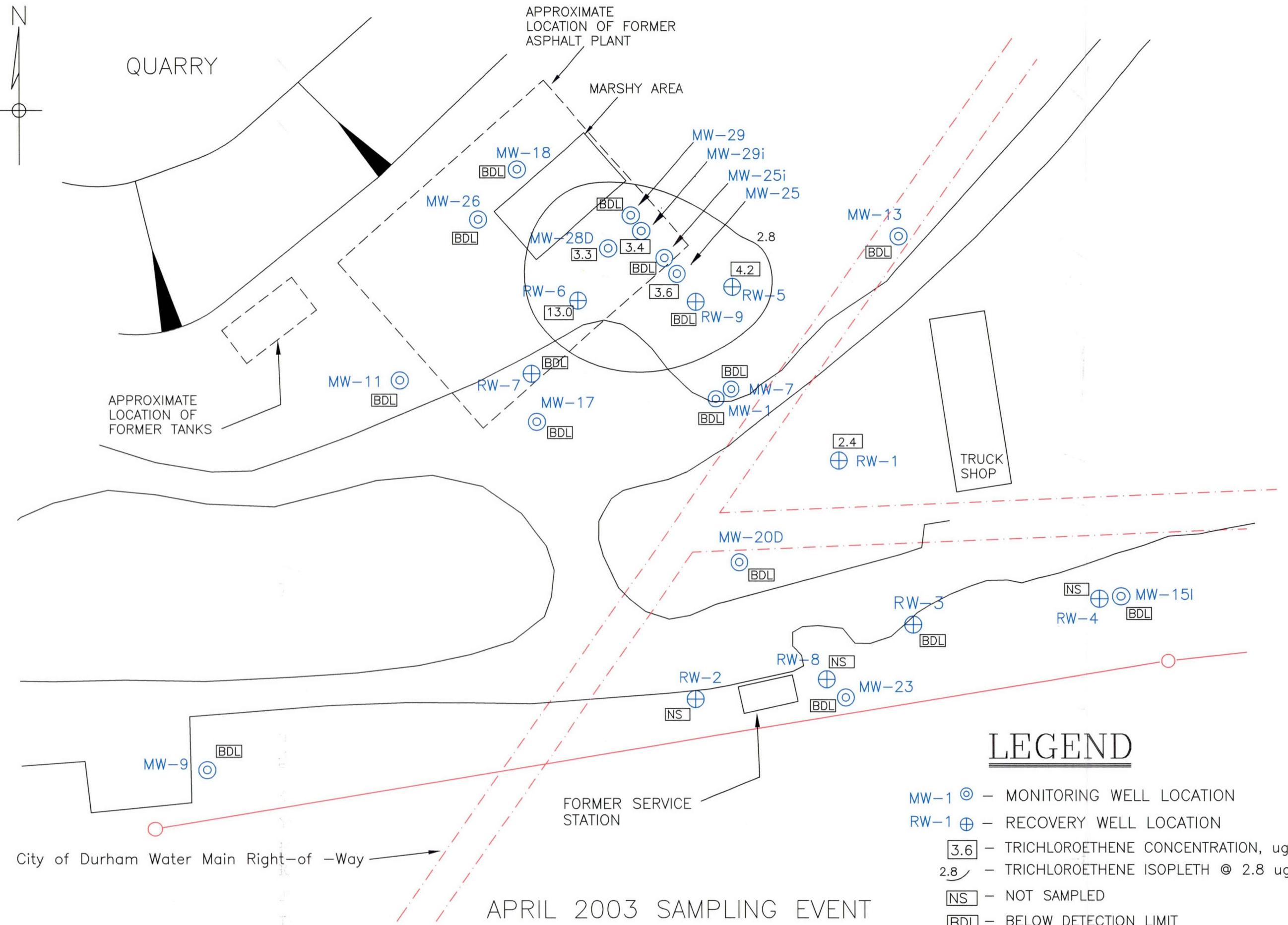
APRIL 2003
TRICHLOROETHENE PLUME
NELLO L. TEER
DURHAM QUARRY

Revisions

Project No.
0013-94-012

SCALE: 1" = 75'

DWN	CHK	CLIENT APPROVAL
DATE	DATE	DATE
12	01	

LEGEND

- MW-1 ⊙ – MONITORING WELL LOCATION
- RW-1 + – RECOVERY WELL LOCATION
- 3.6 – TRICHLOROETHENE CONCENTRATION, ug/l
- 2.8 – TRICHLOROETHENE ISOPLETH @ 2.8 ug/l
- NS – NOT SAMPLED
- BDL – BELOW DETECTION LIMIT

FIGURE 8

APRIL 2003
1,1-DICHLOROETHENE PLUME
NELLO L. TEER
DURHAM QUARRY

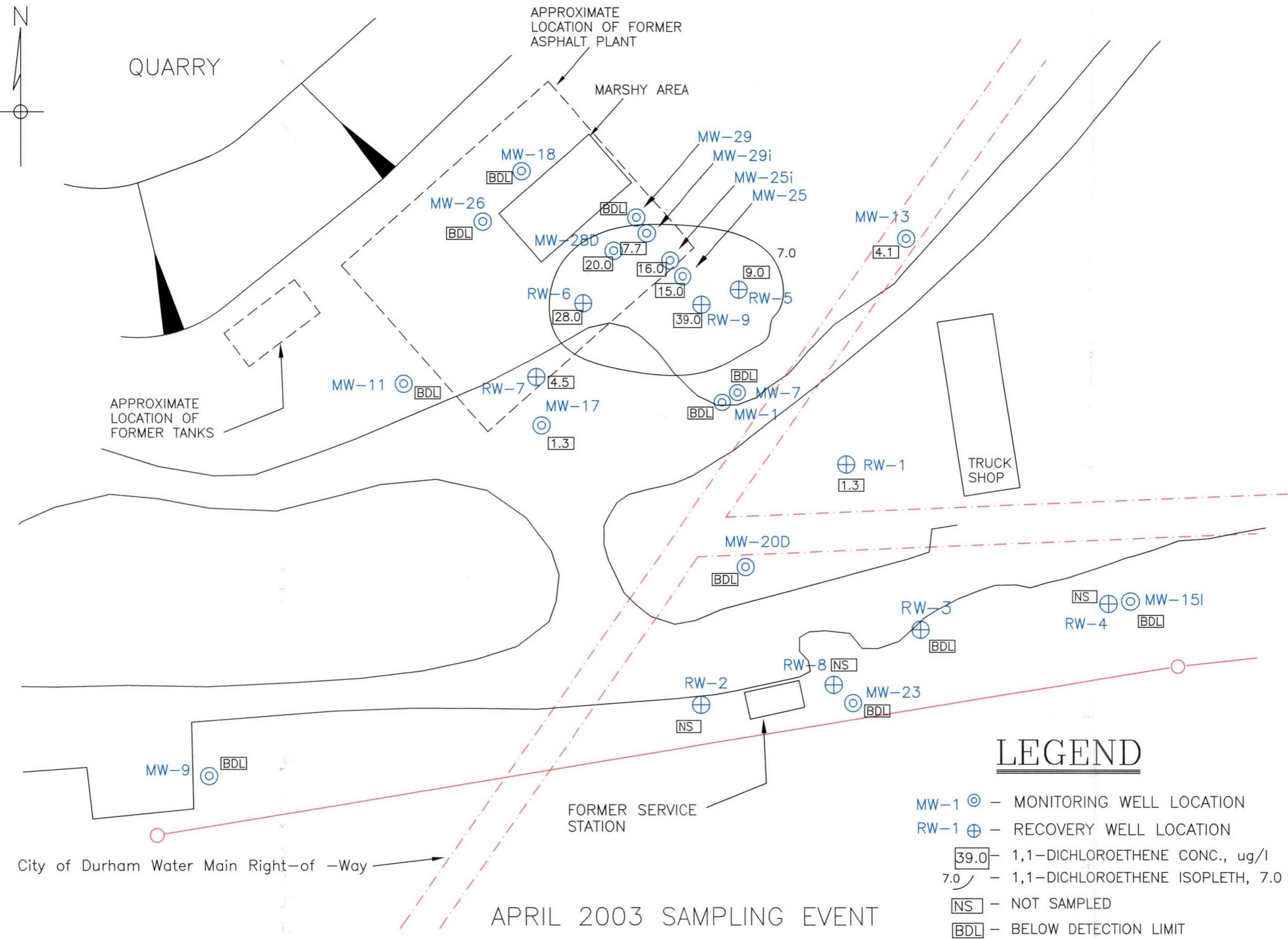
Quantum Environmental, Inc.
6001 Chapel Hill Rd. Suite 108
Raleigh North Carolina 27607
Phone: (919) 852-3595 Fax: (919) 852-1997

Revisions

Project No.
0013-94-012

SCALE: 1" = 75'

DWN	CHK	CLIENT APPROVAL
DATE	DATE	DATE
12	01	



Tables

Table 1. Well and Water Level Data
April 2003 Sampling Event
Nello Teer Quarry, Denfield St.
Durham, North Carolina

Well #	Top of Casing Elevation ^a	Screen Interval ^b	Depth to Water ^c	Water Table Elevation ^a	Purge Volume (Gallons)
MW-1	329.5	20.0 - 35.0	17.32	312.18	9
MW-7	329.26	9.0 - 14.0	11.63	317.63	2
MW-9	333.65	25.0 - 40.0	26.17	307.48	7
MW-11	327.87	35.0 - 50.0	34.71	293.16	8
MW-13	326.48	50.0 - 65.0	28.52	297.96	19
MW-15i	329.53	25.0 - 40.5	20.07	309.46	10
MW-17	327.59	2.5 - 12.5	3.74	323.85	4.5
MW-18	328.43	3.0 - 13.0	4.52	323.91	4.5
MW-20D	329.58	110.0 - 115.0	36.67	292.91	40
MW-23	331.87	25.0 - 47.0	30.23	301.64	8.5
MW-25	328.92	4.0 - 14.0	2.11	326.81	6
MW-25i	329.03	18.0 - 33.0	20.10	308.93	4.5
MW-26	328.92	3.0 - 13.0	4.70	324.22	4.5
MW-28D	329.97	85.0 - 90.0	37.89	292.08	27
MW-29	328.89	4.0 - 14.0	1.59	327.30	6.5
MW-29i	328.74	18.0 - 33.0	3.81	324.93	15

^a surveyed elevation, referenced to mean sea level

^b feet below land surface

^c feet below top of casing

Table 2. Groundwater Sample Results Summary-Shallow Monitoring Wells
April 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	MW-7	MW-17	MW-18	MW-25	MW-25i	MW-26	MW-29	MW-29i	2L LIMITS
Benzene	BDL ^a	BDL	NA	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes (Total)	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	530.00
MTBE	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	200.00
2-Methylnaphthalene	BDL	BDL	BDL	6.3	4.2	BDL	BDL	BDL	14.0
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21/6 ^b
Acenaphthene	BDL	NA	BDL	BDL	BDL	BDL	1.9	BDL	80.0
Fluorene	BDL	NA	BDL	BDL	BDL	BDL	2.0	1.0	280.0
1-Methylnaphthalene	BDL	NA	BDL	BDL	BDL	BDL	16.0^c	BDL	NS
Phenanthrene	BDL	NA	BDL	BDL	BDL	BDL	1.2	BDL	210.0
1,1-Dichloroethane	BDL	6.2	BDL	13.0	17.0	1.0	BDL	6.0	700
1,2-Dichoroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38
1,1-Dichloroethene	BDL	1.3	BDL	15.0	16.0	BDL	BDL	7.7	7.00
Trichloroethene	BDL	BDL	BDL	3.6	BDL	BDL	BDL	3.4	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	13.0	BDL	BDL	BDL	BDL	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Vinyl chloride	BDL	1.5^c	BDL	1.7	2.8	BDL	BDL	BDL	0.015
Total CVOCs	--	9.0	--	46.3	35.8	1.0	0.0	17.1	--

All Values in µg/L.

^a BDL Indicates Below Detection Limit.

^b Proposed Standard.

^c Bold Text Indicates Concentration in Excess of State Standard.

Quantum Project No. 0013-94-012

Table 2, cont. Groundwater Sample Results Summary-Shallow Recovery Wells
April 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	RW-5	RW-6	RW-7	2L LIMITS
Benzene	NA ^a	NA	NA	1.00
Toluene	NA	NA	NA	1000.00
Ethylbenzene	NA	NA	NA	29.00
Xylenes (Total)	NA	NA	NA	530.00
MTBE	NA	NA	NA	200.00
Naphthalene	BDL ^b	BDL	BDL	21/6 ^c
Bromomethane	BDL	NA	BDL	1.00
Chloroform	BDL	NA	BDL	0.19
Chloroethane	BDL	BDL	BDL	2800.00
1,1-Dichloroethane	12.0	49.0	24.0	700
1,2-Dichloroethane	BDL	BDL	BDL	0.38
1,1-Dichloroethene	9.0 ^d	28.0	4.5	7.00
Trichloroethene	4.2	13.0	BDL	2.80
1,1,1-Trichloroethane	BDL	66.0	BDL	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	1.00
Vinyl Chloride	1.5	9.1	4.1	0.015
<i>Total CVOCs</i>	26.7	165.1	8.6	--

All Values in µg/L.

^a NA Indicates Parameter Not Analyzed For.

^b BDL Indicates Below Detection Limit.

^c Proposed Standard.

^d BOLD Text Indicates Concentration In Excess of State Standard.

Quantum Project No. 0013-94-012

Table 3. Groundwater Sample Results Summary-Deep Monitoring Wells
April 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	MW-1	MW-9	MW-11	MW-13	MW-15I	MW-20D	MW-23	MW-28D	2L LIMITS
Benzene	BDL ^a	BDL	NA ^b	BDL	BDL	BDL	15.0^c	BDL	1.00
Toluene	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	NA	BDL	BDL	BDL	4.6	BDL	29.00
Xylenes (Total)	BDL	BDL	NA	BDL	BDL	BDL	8.5	BDL	530.00
MTBE	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	200.00
DIPE	BDL	BDL	NA	BDL	BDL	BDL	18.0	BDL	70.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	5.0	BDL	21/6 ^d
Acenaphthene	BDL	NA	NA	BDL	BDL	BDL	1.2	BDL	80.0
Fluorene	BDL	NA	NA	BDL	BDL	BDL	1.8	BDL	280.0
1-Methylnaphthalene	BDL	NA	NA	BDL	BDL	BDL	1.6	BDL	NS
2-Methylnaphthalene	BDL	NA	NA	BDL	BDL	BDL	1.6	BDL	14.0
Phenanthrene	BDL	NA	NA	BDL	BDL	BDL	1.6	BDL	210.0
1,1-Dichloroethane	BDL	BDL	BDL	5.9	BDL	BDL	BDL	25.0	700
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38
1,1-Dichloroethene	BDL	BDL	BDL	4.1	BDL	BDL	BDL	20.0	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	0.015
Total CVOCs	--	--	--	10.0	--	--	--	54.7	--

All Values in µg/L.

^a BDL Indicates Below Detection Limit

^b NA Indicates Compound Not Analyzed For.

^c BOLD Text Indicates Concentration In Excess of State Standard

^d Proposed Standard

Quantum Project No. 0013-94-012

Table 3, cont. **Groundwater Sample Results Summary-Deep Recovery Wells**
April 2003 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	RW-1	RW-2	RW-3	RW-4	RW-8	RW-9	2L LIMITS
Benzene	BDL ^a	BDL	BDL	NA ^b	15.0	BDL	1.00
Toluene	BDL	BDL	BDL	NA	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	NA	2.0	BDL	29.00
Xylenes (Total)	BDL	BDL	BDL	NA	7.6	BDL	530.00
MTBE	BDL	BDL	BDL	NA	BDL	BDL	200.00
DIPE	BDL	9.8	BDL	NA	24.0	BDL	70.00
Fluorene	BDL	BDL	15.0	NA	2.6	BDL	280
Naphthalene	BDL	BDL	21.0^c	NA	2.9	NA	21/6 ^d
Phenanthrene	BDL	BDL	33.0	NA	2.3	BDL	210
Acenaphthene	BDL	BDL	11.0	NA	2.2	BDL	80.0
1-Methylnaphthalene	BDL	BDL	23.0	NA	8.9	1.1	NS
2-Methylnaphthalene	BDL	BDL	BDL	NA	3.3	BDL	14.0
Chloroethane	BDL	BDL	BDL	NA	BDL	BDL	2800.00
1,1-Dichloroethane	5.3	BDL	BDL	NA	BDL	56.0	700
1,2-Dichloroethane	BDL	BDL	BDL	NA	BDL	BDL	0.38
1,1-Dichloroethene	1.3	BDL	BDL	NA	BDL	39.0	7.00
Trichloroethene	2.4	BDL	BDL	NA	BDL	1.8	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	NA	BDL	BDL	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	NA	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	NA	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	NA	BDL	BDL	1.00
Vinyl chloride	1.1	BDL	BDL	NA	BDL	4.8	0.015
Total CVOCs	10.1	0.0	0.0	--	0.0	101.6	--

All Values in ug/L.

^a BDL Indicates Below Detection Limit

^b NA Indicates Parameter Not Analyzed.

^c Bold Text Indicates Concentration Above State Standard.

^d Proposed Standard.

Quantum Project No. 0013-94-012

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

Constituent	Date				2L Standard
	5/7/93	5/7/93	5/20/93	5/20/93	
Benzene	16.00	38.80	34.40	11.30	1.00
Toluene	0.90	1.00	1.80	2.60	1000.00
Ethylbenzene	0.40	1.00	1.00	8.80	29.00
Xylenes	5.10	15.40	17.20	NA	530.00
Naphthalene	NA	NA	2.00	NA	21.00
MTBE	NA	51.60	11.80	BDL	200.00
EDB	NA	NA	BDL	BDL	0.0004
IPE	NA	NA	NA	BDL	0.07
Total PAH	22.40	107.80	68.20	22.70	
1,1-Dichloroethane	NA	0.73	0.73	BDL	700.00
Trichloroethene	NA	4.70	5.04	BDL	2.80
cis-,1,2-Dichloroethylene	NA	NA	NA	NA	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	5.43	5.77	0.00	
Lead	NA	NA	1.00	NA	15.00

Constituent	Date		2L Standard
	5/18/93		
Benzene	BDL		1.00
Toluene	BDL		1000.00
Ethylbenzene	BDL		29.00
Xylenes	BDL		530.00
Naphthalene	BDL		21.00
MTBE	BDL		200.00
EDB	BDL		0.0004
IPE	BDL		0.07
Total PAH	0.00		
1,1-Dichloroethane	BDL		700.00
Trichloroethene	BDL		2.80
cis-,1,2-Dichloroethylene	NA		70.00
Vinyl Chloride	BDL		0.02
Total CVOCs	0.00		
Lead	0.50		15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

W-3

Constituent	Date	2L Standard
	5/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	0.90	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total PAH	0.90	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	0.50	15.00

W-4

Constituent	Date	2L Standard
	5/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total PAH	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	BDL	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

W-5

Constituent	Date			2L Standard
	5/20/93	5/20/93	5/20/93	
Benzene	BDL	BDL	BDL	1.00
Toluene	0.07	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	NA	530.00
Naphthalene	BDL	2.00	NA	21.00
MTBE	BDL	BDL	BDL	200.00
EDB	BDL	1.00	BDL	0.0004
IPE	BDL	NA	BDL	0.07
Total PAH	0.07	3.00	0.00	
1,1-Dichloroethane	BDL	1.00	BDL	700.00
Trichloroethene	BDL	2.10	BDL	2.80
cis-,1,2-Dichloroethylene	NA	NA	NA	70.00
Vinyl Chloride	BDL	1.00	BDL	0.02
Total CVCs		4.10	0.00	
Lead	0.20	1.00	BDL	15.00

MW-I

Constituent	Date													2L Standard		
	05/20/93	8/29/94	1/26/95	4/27/95	8/29/95	3/14/96	10/11/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/4/02	9/12/02	4/15/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	1.00
Toluene	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	NA	BDL	BDL	21.00
MTBE	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	BDL	BDL	BDL	0.07
Total VOCs	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	700.00
Trichloroelhene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	NA	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL	BDL	BDL	0.02
Total CVCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

RW-2 (former MW-2)

Constituent	Date										2L Standard
	05/07/93	05/20/93	08/29/94	08/29/99	06/15/00	01/23/01	06/15/01	12/28/01	06/06/02	06/06/02	
Benzene	575.00	353.00	95.00	6.80	BDL	1.60	NS	BDL	BDL	BDL	1.00
Toluene	1,160.00	418.00	19.00	BDL	1.70	BDL	NS	BDL	BDL	BDL	1000.00
Ethylbenzene	84.40	BDL	62.00	BDL	1.00	2.40	NS	BDL	BDL	BDL	29.00
Xylenes	1,425.00	106.00	61.00	BDL	13.00	1.10	NS	BDL	BDL	BDL	530.00
Naphthalene	NA	NA	2.78	BDL	BDL	BDL	NS	NS	BDL	BDL	21.00
MTBE	NA	BDL	NA	BDL	BDL	BDL	NS	3.00	BDL	BDL	200.00
EDB	NA	BDL	NA	BDL	BDL	BDL	NS	NS	NS	NA	0.0004
IPE	NA	BDL	NA	BDL	BDL	BDL	NS	NS	BDL	BDL	0.07
Total VOCs	2,200.40	877.00	239.78	6.80	15.70	5.10	NS	3.00	0.00	0.00	
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL	NA	700.00
Trichloroethylene	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL	NA	2.80
cis-1,2-Dichloroethylene	NA	NA	90.00	BDL	6.50	2.60	NS	NS	BDL	NA	70.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL	NA	0.02
Total CVOCs	0.00	0.00	90.00	0.00	6.50	2.60	NS	NS	0.00	NA	
Lead	<0.05	0.20	NA	NA	NA	NS	NS	NS	NS	NA	15.00

MW-3

Constituent	Date				2L Standard
	05/21/93	08/29/94	01/26/95	04/27/95	
Benzene	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	BDL	BDL	NA	200.00
EDB	BDL	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
Trichloroethylene	BDL	BDL	BDL	BDL	2.80
cis-1,2-Dichloroethylene	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	
Lead	0.056	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-4

Constituent	Date	2L Standard
	05/18/93	
Benzene	BDL	1.00
Toluene	0.70	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCS	0.00	NA
Lead	0.50	15.00

MW-5

Constituent	Date	2L Standard
	05/07/93	05/20/93
Benzene	BDL	BDL
Toluene	BDL	BDL
Ethylbenzene	BDL	BDL
Xylenes	BDL	BDL
Naphthalene	NA	BDL
MTBE	NA	BDL
EDB	NA	BDL
IPE	NA	BDL
Total VOCs	0.00	0.00
1,1-Dichloroethane	NA	BDL
Trichloroethene	NA	BDL
cis-,1,2-Dichloroethylene	NA	BDL
Vinyl Chloride	NA	BDL
Total CVOCS	0.00	0.00
Lead	NA	0.07
		15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-6														
Constituent	Date	2L Standard												
	05/21/93													
Benzene	BDL	1.00												
Toluene	BDL	1000.00												
Ethylbenzene	BDL	29.00												
Xylenes	BDL	530.00												
Naphthalene	BDL	21.00												
MTBE	BDL	200.00												
EDB	BDL	0.0004												
IPE	BDL	0.07												
Total VOCs	0.00													
1,1-Dichloroethane	BDL	700.00												
Trichloroethene	BDL	2.80												
cis-,1,2-Dichloroethylene	BDL	70.00												
Vinyl Chloride	BDL	0.02												
Total CVOCs	0.00													
Lead	0.03	15.00												

MW-7															
Constituent	Date													2L Standard	
	05/21/93	08/29/94	01/26/95	8/29/95	4/27/95	3/14/96	10/11/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/4/02	09/12/02	04/15/03
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.1	NA	BDL	BDL	200.00
EDB	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	NA	0.0004
IPE	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lead	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-8

Constituent	Date	2L Standard
	05/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	0.0004
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethylene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCS	0.00	
Lead	<0.05	15.00

MW-9

Constituent	Date						2L Standard
	9/9/93	8/30/94	1/25/95	4/27/95	6/4/02	9/12/02	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	NA	NA	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	1.30	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCS	0.00	0.00	0.00	1.30	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-11

Constituent	Date													2L Standard	
	9/9/93	8/30/94	1/26/95	4/27/95	8/29/95	3/13/96	10/9/96	12/3/97	5/13/98	6/17/99	12/10/99	6/4/02	9/12/02	4/15/03	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	21.00
MTBE	BDL	NA	NA	NA	BDL	NA	NA	1.30	BDL	BDL	BDL	BDL	NA	NA	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	NA	NA	
1,1-Dichloroethane	0.60	BDL	BDL	BDL	BDL	2.40	BDL	3.00	2.20	1.00	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	2.50	1.80	BDL	1.60	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	22.90	BDL	BDL	BDL	NA	70.00						
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.60	0.00	2.50	24.70	0.00	4.00	0.00	3.00	2.20	1.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	15.00									

MW-12

Constituent	Date				2L Standard
	9/9/93	8/30/94	1/26/95	4/27/95	
Benzene	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	200.00
EDB	BDL	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-13

Constituent	Date															2L Standard		
	9/9/93	8/31/94	1/26/95	4/27/95	8/29/95	3/14/96	10/9/96	12/3/97	5/13/98	6/17/99	12/10/99	12/7/00	6/13/01	12/28/01	6/4/02	9/12/02		
Benzene	BDL	3.10	BDL	BDL	1.13	3.40	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	
Toluene	BDL	BDL	BDL	BDL	2.83	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00	
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00	
Xylenes	BDL	BDL	BDL	BDL	2.63	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	21.00	
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	3.20	2.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00	
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	0.0004	
IPE	BDL	NA	NA	NA	23.10	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.07	
Total VOCs	0.00	0.00	0.00	0.00	29.69	3.40	0.00	4.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	4.40	6.00	7.90	13.20	2.06	2.40	2.67	11.00	7.90	3.30	6.4	3.7	5.2	4	4.90	2.90	5.90	700.00
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	3.80	BDL	2.70	BDL	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	200.00	
Trichloroethylene	BDL	5.10	BDL	4.10	BDL	2.90	3.02	2.40	BDL	2.40	2.8	BDL	1.30	1.40	1.50	BDL	BDL	2.80
1,1-Dichloroethene	BDL	BDL	BDL	2.30	BDL	3.00	BDL	2.50	1.70	1.70	4.2	2.2	3.8	1	BDL	1.50	4.10	7.00
cis-,1,2-Dichloroethylene	BDL	3.40	BDL	3.40	2.48	4.10	BDL	BDL	BDL	2.70	2.2	2.3	2.1	2.1	BDL	BDL	70.00	
Vinyl Chloride	BDL	BDL	BDL	BDL	1.40	BDL	BDL	1.20	BDL	BDL	BDL	1.20	1.00	BDL	BDL	BDL	0.02	
Total CVOCs	4.40	14.50	7.90	23.00	57.33	21.00	5.69	18.60	10.80	10.10	17.80	8.20	13.60	9.50	6.40	4.40	10.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00	

MW-14S

Constituent	Date								2L Standard	
	9/9/93	8/30/94	1/31/95	4/27/95	8/30/95	3/15/96	10/9/96	12/2/97		
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	1.17	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	2.10	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	507.00	BDL	BDL	4.10	2.20	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	507.00	0.00	3.27	4.10	2.20	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-141

Constituent	Date											2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	3/15/96	10/9/96	12/3/97	5/13/98	6/17/99	12/10/99	12/7/00	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 21.00
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NS	BDL 200.00
EDB	BDL	NA	BDL	BDL	NS	BDL 0.0004						
IPE	BDL	NA	BDL	BDL	NS	BDL 0.07						
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	BDL 0.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS
Lead	<0.05	NA	NS	NS 15.00								

MW-15S

Constituent	Date					2L Standard
	9/9/93	8/31/94	1/26/95	4/27/95	8/30/95	
Benzene	10.70	17.50	BDL	BDL	BDL	1.00
Toluene	8.80	2.60	BDL	BDL	BDL	1000.00
Ethylbenzene	76.40	147.00	43.00	56.30	77.70	29.00
Xylenes	NA	430.00	170.00	188.00	205.00	530.00
Naphthalene	13.00	63.30	60.90	53.40	27.60	21.00
MTBE	8.30	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	0.0004
IPE	BDL	NA	NA	NA	BDL	0.07
Total VOCs	117.20	660.40	273.90	297.70	310.30	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-151

Constituent	Date														2L Standard	
	9/9/93	8/31/94	1/26/95	4/27/95	8/30/95	3/15/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	6/15/01	6/4/02	9/12/02	
Benzene	BDL	BDL	BDL	BDL	2.16	BDL	BDL	BDL	1.30	4.80	2.5	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	2.70	3.40	1.90	BDL	BDL	BDL	BDL	1.20	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	3.60	9.00	BDL	BDL	BDL	BDL	BDL	1.90	4.4	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.20	BDL	BDL	BDL	BDL	NA	BDL	21.00
MTBE	BDL	NA	NA	BDL	44.60	BDL	BDL	12.00	13.00	BDL	6.1	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	0.0004
IPE	BDL	NA	NA	NA	5.70	NA	NA	NA	NA	BDL	BDL	NA	BDL	BDL	BDL	0.07
Total VOCs	BDL	6.30	12.40	1.90	52.46	0.00	0.00	12.00	15.20	8.90	10.50	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	NA	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	NA	BDL	0.02
Total CVOCS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	BDL	NA	0.00	
Lead	<0.05	NA	NA	NS	NA	NA	15.00									

MW-16S

Constituent	Date						2L Standard
	9/9/93	8/30/94	1/25/95	4/27/95	3/14/96	10/9/96	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCS	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-161

Constituent	Date											2L Standard
	9/9/93	8/31/94	1/26/95	4/27/95	3/14/96	10/9/96	12/1/97	5/13/98	6/17/99	12/10/99		
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	Well removed from active monitoring network
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00	
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00	in June, 2000
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00	
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	200.00	
EDB	BDL	NA	BDL	BDL	0.0004							
IPE	BDL	NA	BDL	BDL	0.07							
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00	
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	2.80	
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00	
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	
Total CVOCS	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	0.00	0.00		
Lead	<0.05	NA	15.00									

MW-17

Constituent	Date														2L Standard		
	9/9/93	8/30/94	1/31/95	4/27/95	8/29/95	3/13/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	6/15/01	12/28/01	6/4/02	9/12/02	4/15/03
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	1.00	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	1000.00	
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	29.00	
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	530.00	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	21.00	
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	200.00	
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	0.0004	
IPE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	0.07	
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	17.10	BDL	15.50	23.30	23.40	10.40	9.33	7.40	7.20	6.00	7.3	2.6	1.9	1.9	3.90	BDL	6.20
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	
cis-,1,2-Dichloroethylene	BDL	BDL	3.80	2.10	2.92	1.30	BDL	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	70.00	
Vinyl Chloride	2.20	38.90	63.00	BDL	23.40	35.30	21.70	BDL	2.60	5.00	5.7	1.70	2.50	2.00	3.20	BDL	1.50
Total CVOCS	19.30	38.90	82.30	25.40	49.72	47.00	31.03	7.40	9.80	12.00	13.00	4.30	4.40	3.90	7.10	0.00	9.00
Lead	<0.05	NA	NA	NA	NA	NA	15.00										

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-18

Constituent	Date															2L Standard			
	9/9/93	8/30/94	1/31/95	4/27/95	8/29/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	6/15/01	1/2/02	6/4/02	9/12/02	2/13/03	9/12/03	4/15/03
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	1.00
Toluene	1.30	BDL	NA	NA	BDL	NA	NA	NA	NA	1000.00									
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	21.00
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA	NA	NA	200.00						
EDB	BDL	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	BDL	NA	NA	NA	0.07
Total VOCs	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	48.10	BDL	BDL	97.90	71.30	5.80	10.60	12.00	1.50	BDL	1.40	BDL	2.30	1.90	1.90	BDL	BDL	BDL	700.00
1,2-Dichloroethane	BDL	BDL	27.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38							
1,1-Dichloroethene	BDL	BDL	3.90	BDL	1.93	BDL	BDL	1.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-1,2-Dichloroethylene	NA	BDL	4.80	1.40	3.73	BDL	BDL	BDL	BDL	BDL	BDL	3.40	2.50	BDL	BDL	BDL	BDL	NA	70.00
Vinyl Chloride	10.90	BDL	50.00	BDL	58.90	16.30	10.90	8.10	2.30	BDL	3.80	BDL	4.70	1.60	2.20	BDL	BDL	BDL	0.02
Chloroethane	BDL	BDL	50.00	BDL	59.00	9.50	BDL	1.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Total CVOCs	59.00	0.00	135.70	99.30	194.86	31.60	21.50	23.10	3.80	0.00	5.20	0.00	10.40	6.00	4.10	0.00	0.00	0.00	0.00
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	15.00									

MW-19

Constituent	Date							2L Standard
	9/9/93	8/30/94	1/31/95	4/27/95	3/14/96	10/9/96	12/2/97	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-20S

Constituent	Date						2L Standard
	9/9/93	8/30/94	1/25/95	4/27/95	8/30/95	3/14/96	
Benzene	15.00	64.40	44.00	71.80	64.40	64.90	1 00
Toluene	1.80	9.50	6.20	BDL	26.00	2.40	1000.00
Ethylbenzene	BDL	16.38	7.00	14.60	25.30	5.90	29.00
Xylenes	BDL	21.00	16.70	20.60	80.70	17.00	530.00
Naphthalene	BDL	3.84	3.29	4.90	BDL	4.50	21.00
MTBE	7.30	BDL	BDL	BDL	9.69	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	0.0004
IPE	14.20	NA	NA	NA	50.00	NA	0.07
Total VOCs	38.30	115.12	77.19	111.90	256.09	94.70	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	280
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	15.00

MW-20D

Constituent	Date														2L Standard		
	9/9/93	8/31/94	1/25/95	4/27/95	8/30/95	3/15/96	10/11/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/14/01	1/2/02	6/4/02	9/12/02	4/16/03
Benzene	15.00	30.00	22.00	29.80	30.30	20.00	21.60	16.00	13.00	12.30	1.80	1.50	BDL	1.80	2.60	2.50	BDL 1 00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	6.20	NA	NA	NA	BDL	NA	NA	5.70	4.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0004
IPE	14.20	NA	NA	NA	26.60	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	0.07
Total VOCs	35.40	30.00	22.00	29.80	56.90	20.00	21.60	26.20	17.30	12.30	1.80	1.50	0.00	1.80	7.90	8.60	0.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	8.00	BDL	5.20	5.47	4.00	BDL	BDL	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	4.30	BDL	1.70	3.20	3.00	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	8.00	0.00	5.20	5.47	8.30	0.00	1.70	3.20	4.10	0.00	0.00	1.20	2.30	3.20	2.80	0.00
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-21

Constituent	Date					2L Standard
	9/9/93	8/30/94	1/26/95	4/27/95	3/15/96	
Benzene	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCS	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	15.00

MW-22

Constituent	Date											2L Standard	
	4/28/94	8/30/94	1/25/95	4/27/95	8/30/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	
Benzene	9.40	BDL	NS	1.00									
Toluene	BDL	NS	1000.00										
Ethylbenzene	BDL	NS	29.00										
Xylenes	BDL	NS	530.00										
Naphthalene	BDL	NS	21.00										
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	NS	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	NS	0.0004
IPE	8.00	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	NS	0.07
Total VOCs	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	0.07
1,1-Dichloroethane	NA	BDL	NS	700.00									
Trichloroethene	NA	BDL	NS	2.80									
cis-,1,2-Dichloroethylene	NA	BDL	NS	70.00									
Vinyl Chloride	NA	BDL	NS	0.02									
Total CVOCS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	
Lead	<0.005	NA	NS	15.00									

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-23

Constituent	Date																2L Standard	
	4/28/94	8/30/94	1/26/95	4/27/95	8/30/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	12/7/00	6/13/01	12/28/02	6/4/02	9/12/02	4/15/03	
Benzene	21.00	68.40	36.00	67.90	58.90	56.40	69.70	42.00	23.00	37.10	14.3	28	11.6	37	5.30	4.30	15.00	1.00
Toluene	BDL	13.00	BDL	14.50	18.60	9.90	4.52	BDL	6.70	7.50	1.9	1.8	1.5	4.6	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	46.50	14.00	40.40	30.70	14.90	11.30	BDL	9.60	19.10	2.3	16.7	BDL	38.9	2.40	BDL	4.60	29.00
Xylenes	BDL	100.00	40.00	95.30	77.30	24.70	35.50	41.00	40.00	39.60	18	6.6	BDL	30.6	4.50	BDL	8.50	530.00
Naphthalene	BDL	33.70	42.50	42.90	19.10	32.00	11.70	BDL	9.10	12.00	BDL	BDL	BDL	24.70	NA	2.50	5.00	6.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	5.40	BDL	8.8	3.00	NA	7.20	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	0.0004
IPE	15.00	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	0.0004
Total VOCs	36.00	216.60	132.50	261.00	204.60	137.90	132.72	83.00	93.80	115.30	45.30	47.10	13.00	143.00	22.00	6.80	18.00	0.07
Aacenaphthene	NA	NA	NA	NA	NA	NA	51.10											
Fluorene	NA	NA	NA	NA	NA	NA	1.20	80.00										
Phenanthrene	NA	NA	NA	NA	NA	NA	1.80	280.00										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	1.60	210.00										
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	8.90	1.60										
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	NA	3.00	1.60	14.00									
1,2-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00									
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38									
cis-1,2-Dichloroethylene	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80									
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	70.00									
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	1.00	1.30	0.00	0.00	0.02
Lead	<0.005	NA	NA	NA	NA	NA	NA	NA	15.00									

MW-24

Constituent	Date											2L Standard
	4/28/94	8/30/94	1/31/95	4/27/95	3/15/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99		
Benzene	BDL	2.60	BDL	BDL	1.00	-						
Toluene	BDL	6.00	BDL	BDL	1000.00	-						
Ethylbenzene	BDL	29.00	-									
Xylenes	BDL	530.00	-									
Naphthalene	BDL	21.00	-									
MTBE	BDL	NA	NA	NA	NA	NA	1.20	1.80	BDL	BDL	200.00	-
EDB	BDL	NA	BDL	BDL	0.0004	-						
IPE	BDL	NA	BDL	BDL	0.07	-						
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	1.20	15.20	0.00	0.00	-	-
1,1-Dichloroethane	NA	BDL	700.00	-								
Trichloroethene	NA	BDL	2.80	-								
cis-1,2-Dichloroethylene	NA	BDL	70.00	-								
Vinyl Chloride	NA	BDL	0.02	-								
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	-	-
Lead	<0.005	NA	15.00	-								

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-25

Constituent	Date																		2L Standard	
	8/30/94	1/31/95	4/27/95	8/29/95	3/14/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/8/00	12/7/00	6/15/01	12/28/01	6/4/02	9/12/02	2/13/03	3/21/03	4/15/03	
Benzene	BDL	NA	NA	BDL	BDL	NA	NA	BDL	100											
Toluene	BDL	BDL	BDL	336.0	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	1000.00		
Ethylbenzene	BDL	NA	NA	BDL	BDL	NA	NA	BDL	29.00											
Xylenes	BDL	NA	NA	BDL	BDL	NA	NA	BDL	530.00											
Naphthalene	BDL	BDL	2.2	BDL	NA	NA	BDL	BDL	NA	NA	BDL	21.00								
MTBE	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA	BDL	0.0004		
EDB	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	BDL	0.07		
IPE	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	BDL	200.00		
Total VOCs	0.0	0.0	2.2	336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	0.0004		
2-Methylnaphthalene	NA	NA	NA	BDL	BDL	NA	NA	BDL	0.00											
1,1-Dichloroethane	840.0	690.0	632.0	1100.0	262.0	259.0	350.0	240.0	282.0	185.0	110.0	156.0	160.0	200.0	150.00	180.00	150.00	28.00	13.00	700.00
1,2-Dichloroethane	BDL	BDL	BDL	BDL	7.6	BDL	7.5	BDL	1.3	2.0	BDL	3.0	BDL	2.9	1.80	2.40	BDL	BDL	0.38	
1,1-Dichloroethene	BDL	770.0	708.0	1270.0	618.0	501.0	390.0	340.0	204.0	280.0	80.0	282.0	100.0	234.0	120.00	220.00	110.00	27.00	15.00	7.00
Trichloroethene	280.0	125.0	267.0	232.0	152.0	206.0	81.0	BDL	98.0	110.0	64.3	90.0	34.7	77.4	46.00	49.00	40.00	9.10	3.60	2.80
1,1,1-Trichloroethane	BDL	1710.0	2709.0	3920.0	1440.0	2080.0	620.0	1000.0	358.0	725.0	465.0	342.0	365.0	354.0	220.00	270.00	240.00	31.00	13.00	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	3.7	6.6	BDL	BDL	2.2	BDL	2.1	BDL	1.5	1.30	BDL	BDL	BDL	1.00	
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70										
Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00										
cis-1,2-Dichloroethylene	330.0	470.0	319.0	429.0	164.0	BDL	BDL	BDL	151.0	32.0	81.5	84.0	BDL	92.5	BDL	BDL	BDL	2100.00		
Vinyl Chloride	BDL	BDL	BDL	126.0	85.6	48.9	BDL	30.0	BDL	33.2	13.2	29.7	19.1	29.7	18.00	24.00	16.00	3.70	1.70	0.02
Chloroethane	BDL	BDL	BDL	BDL	BDL	8.7	4.3	BDL	BDL	8.2	BDL	4.4	4.1	3.9	23.00	4.90	15.00	BDL	BDL	2800.00
Carbon Tetrachloride	BDL	BDL	BDL	BDL	192.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.30	
1,1,2,2 Tetrachloroethane	BDL	1.0	1.0	1.8	BDL	BDL	BDL	BDL	BDL	1.00										
Total CVOCs	1450.0	3765.0	4635.0	7077.0	2921.2	3107.3	1466.0	1610.0	1094.3	1381.1	815.0	995.0	682.9	995.9	580.1	750.3	578.7	98.8	46.3	15.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA											

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-25I

Constituent	Date			2L Standard
	02/13/03	03/21/03	04/15/03	
Benzene	NA	NA	BDL	
Toluene	NA	NA	BDL	1.00
Ethylbenzene	NA	NA	BDL	1000.00
Xylenes	NA	NA	BDL	29.00
Naphthalene	NA	NA	BDL	530.00
MTBE	NA	NA	BDL	53.00
EDB	NA	NA	NA	21.00
IPE	NA	NA	BDL	200.00
Total VOCs	0.0	0.0	0.0	0.0004
2-Methylnaphthalene	NA	NA	4.2	0.07
1,1-Dichloroethane	74.00	28.00	17.00	
1,2-Dichloroethane	1.00	BDL	BDL	14.00
1,1-Dichloroethene	93.00	35.00	16.00	700.00
Trichloroethene	28.00	9.10	BDL	0.38
1,1,1-Trichloroethane	130.00	27.00	BDL	7.00
1,1,2-Trichloroethane	BDL	BDL	BDL	2.80
Trichlorofluoromethane	BDL	BDL	BDL	200.00
Tetrachloroethylene	BDL	BDL	BDL	1.00
Vinyl Chloride	11.00	3.60	2.80	2100.00
Chloroethane	BDL	BDL	BDL	0.70
Carbon Tetrachloride	BDL	BDL	BDL	0.02
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	2800.00
Total CVOCs	337.0	102.7	35.8	0.30
Lead	NA	NA	NA	1.00
				15.00

MW-26

Constituent	Date															2L Standard		
	8/29/94	1/26/95	4/27/95	8/29/95	3/13/96	10/9/96	12/2/97	5/13/98	6/17/99	12/10/99	6/7/00	12/7/00	6/15/01	1/2/02	6/4/02	9/12/02	4/15/03	
Benzene	BDL	NS	NA	NA	BDL	BDL	BDL	1.00										
Toluene	BDL	NS	NA	NA	BDL	BDL	BDL	1000.00										
Ethylbenzene	BDL	BDL	NS	NA	BDL	BDL	BDL	29.00										
Xylenes	BDL	BDL	BDL	NS	NA	BDL	BDL	BDL	530.00									
Naphthalene	BDL	42.5	BDL	BDL	BDL	NS	NA	NA	NA	NA	21.00							
MTBE	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	BDL	BDL	BDL	200.00
EDB	NA	NA	NA	BDL	NA	NA	BDL	NA	BDL	BDL	BDL	BDL	NS	NA	NA	NA	NA	0.0004
IPE	NA	NA	NA	BDL	NA	NA	BDL	NA	BDL	BDL	BDL	BDL	NS	NA	NA	NA	NA	0.07
Total VOCs	0.0	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NS	NA	BDL	BDL	BDL	700.00
1,1-Dichloroethane	BDL	100.0	109.0	85.4	BDL	54.3	13.0	5.6	3.6	2.4	BDL	NS	1.0	1.8	2.00	2.80	1.00	0.02
1,1-Dichloroethene	BDL	BDL	8.1	10.7	13.6	7.2	5.2	3.6	4.2	5.1	BDL	NS	BDL	BDL	1.20	1.80	BDL	7.00
Trichloroethene	BDL	BDL	NS	BDL	BDL	BDL	BDL	BDL	2.80									
cis-1,2-Dichloroethylene	BDL	BDL	4.9	5.8	8.3	BDL	BDL	BDL	5.8	5.8	BDL	NS	BDL	2.7	BDL	BDL	BDL	70.00
Vinyl Chloride	29.5	BDL	BDL	44.8	56.6	20.1	12.0	6.9	7.0	6.0	BDL	NS	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	29.5	100.0	122.0	146.7	78.5	81.6	30.2	16.1	20.6	19.3	0.0	1.0	4.5	3.2	4.6	1.0	NA	15.00
Lead	NA	NS	NS	NS	NA	NA	NA	NA										

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

Constituent	Date		2L Standard
	9/9/93	8/29/94	
Benzene	BDL	BDL	1.00
Toluene	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	29.00
Xylenes	BDL	BDL	530.00
Naphthalene	BDL	BDL	21.00
MTBE	BDL	NA	200.00
EDB	BDL	NA	0.0004
IPE	BDL	NA	0.07
Total PAH	0.00	NA	
1,1-Dichloroethane	BDL	BDL	700.00
Trichloroethene	BDL	BDL	2.80
cis-1,2-Dichloroethylene	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	0.02
Total CVOCs	0.00	0.00	^
Lead	0.05	NA	15.00

Constituent	Date		2L Standard
	09/12/02	04/16/03	
Benzene	BDL	BDL	
Toluene	5.3	BDL	
Ethylbenzene	BDL	BDL	
Xylenes	BDL	BDL	
Naphthalene	BDL	BDL	
MTBE	BDL	BDL	
EDB	NA	NA	
IPE	BDL	BDL	
Total VOCs	5.3	0.0	
1,1-Dichloroethane	9.70	25.00	
1,1-Dichloroethene	5.50	20.00	
Trichloroethene	1.3	3.3	
1,1,1-Trichloroethane	BDL	4.9	
cis-1,2-Dichloroethylene	BDL	BDL	
Vinyl Chloride	BDL	1.5	
Total CVOCs	16.5	54.7	
Lead	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-29

Constituent	02/13/03	03/21/03	04/15/03	Date	2L Standard
Benzene	NA	NA	BDL		
Toluene	NA	NA	BDL		1.00
Ethylbenzene	NA	NA	BDL		1000.00
Xylenes	NA	NA	BDL		29.00
Naphthalene	NA	NA	BDL		530.00
MTBE	NA	NA	BDL		21.00
EDB	NA	NA	NA		200.00
IPE	BDL	BDL	BDL		0.0004
Total VOCs	0.0	0.0	0.0		0.07
Acenaphthene	NA	NA	1.9		
Fluorene	NA	NA	2.0		
1-Methylnaphthene	NA	NA	16.0		80.00
Phenanthrene	NA	NA	1.2		280.00
1,1-Dichloroethane	BDL	BDL	BDL		NS
1,1-Dichloroethene	BDL	BDL	BDL		210.00
Trichloroethene	BDL	BDL	BDL		700.00
Vinyl Chloride	BDL	BDL	BDL		7.00
Total CVOCs	0.0	0.0	0.0		2.80
Lead	NA	NA	NA		0.02
					15.00

MW-29I

Constituent	02/13/03	03/21/03	04/15/03	Date	2L Standard
Benzene	NA	NA	BDL		
Toluene	NA	NA	BDL		1.00
Ethylbenzene	NA	NA	BDL		1000.00
Xylenes	NA	NA	BDL		29.00
Naphthalene	NA	NA	BDL		530.00
MTBE	NA	NA	BDL		21.00
EDB	NA	NA	NA		200.00
IPE	NA	NA	BDL		0.0004
Total VOCs	0.0	0.0	0.0		0.07
Acenaphthene	BDL	BDL	BDL		
Fluorene	NA	NA	1.0		
1-Methylnaphthene	NA	NA	BDL		80.00
Phenanthrene	NA	NA	BDL		280.00
1,1-Dichloroethane	6.10	9.70	6.00		NS
1,1-Dichloroethene	12.00	BDL	7.70		210.00
Trichloroethene	4.4	5.7	3.4		700.00
1,1,1-Trichloroethane	3.2	3.2	BDL		7.00
Vinyl Chloride	2.0	1.4	BDL		2.80
Total CVOCs	27.7	20.0	17.1		200.00
Lead	NA	NA	NA		0.02
					15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-1										2L Standard
	8/29/99	2/25/00	6/14/00	9/8/00	12/7/00	6/15/01	12/28/01	6/6/02	9/13/02	4/15/03	
Benzene	6.80	BDL	1.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Xylenes	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	21.00
EDB	BDL	BDL	BDL	BDL	BDL	BDL	1.70	BDL	BDL	BDL	200.00
IPE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	0.0004
Total VOCs	0.00	0.00	2.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	70.00
1,1-Dichloroethane	BDL	7.40	BDL	2.90	12.50	5.10	6.20	BDL	3.40	5.30	
1,1 Dichloroethene	BDL	BDL	1.50	1.60	5.40	1.30	2.40	1.70	2.00	1.30	700.00
1,2 Dichloroethane	BDL	BDL	3.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	2.20	BDL	3.20	3.60	4.80	6.00	3.50	4.00	2.40	0.38
1,1,1 Trichloroethane	BDL	3.40	BDL	1.00	2.80	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	2.20	1.80.	3.10	3.30	8.40	10.80	NA	NA	NA	200.00
Chloroethane	BDL	BDL	2.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	2.80	2.60	BDL	BDL	BDL	BDL	2800.00
Total CVOCs	0.00	15.20	9.20	11.80	27.60	24.90	28.00	5.20	9.40	10.10	0.02
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	MDL
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	BDL	28.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	210.00
											15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-2 (formerly MW-2)										2L Standard	
	Date	5/7/93	5/20/93	8/29/94	8/29/99	6/14/00	1/23/01	10/26/01	6/6/02	9/13/02	4/16/03	
Benzene		575.00	353.00	95.00	BDL	BDL	1.60	BDL	BDL	BDL	BDL	
Toluene		1160.00	418.00	19.00	BDL	1.70	BDL	BDL	BDL	BDL	BDL	1.00
Ethylbenzene		84.40	BDL	62.00	BDL	1.00	2.40	BDL	BDL	BDL	BDL	1000.00
Xylenes		1425.00	106.00	61.00	BDL	13.00	1.10	BDL	BDL	BDL	BDL	29.00
Naphthalene		NA	NA	2.78	BDL	BDL	BDL	NA	NA	BDL	BDL	530.00
MTBE		NA	BDL	NA	BDL	BDL	BDL	3.00	BDL	BDL	BDL	21.00
EDB		NA	BDL	NA	BDL	BDL	BDL	BDL	NA	NA	NA	200.00
IPE		NA	BDL	NA	BDL	BDL	BDL	BDL	NA	NA	NA	0.0004
Total VOCs		3244.40	877.00	239.80	0.00	15.70	5.10	3.00	0.00	0.00	0.00	70.00
1,1-Dichloroethane		NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	
1,1 Dichloroethene		NA	NA	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	700.00
Trichloroethene		NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	7.00
1,1,1 Trichloroethane		NA	NA	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	2.80
cis-,1,2-Dichloroethene		NA	NA	90.00	BDL	6.50	2.60	NA	NA	NA	NA	200.00
Chloroethane		NA	NA	NA	BDL	BDL	BDL	NA	BDL	NA	BDL	70.00
Vinyl Chloride		NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	2800.00
Total CVOCS		0.00	0.00	90.00	0.00	6.50	3.80	NA	0.00	NA	0.00	0.02
1-Methylnaphthalene		NA	NA	NA	BDL	BDL	BDL	NA	NA	NA	BDL	
Phenanthrene		NA	NA	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	MDL
Lead		<0.05	0.20	NA	NA	NA	NA	NA	NA	NA	NA	210.00
												15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-3									2L Standard
	8/29/99	2/25/00	6/14/00	12/7/00	6/15/01	12/28/01	6/4/02	9/12/02	4/15/03	
Benzene	25.50	BDL	7.60	9.70	16.80	10.30	13.00	BDL	BDL	
Toluene	21.50	BDL	3.60	2.90	11.00	2.60	5.90	BDL	BDL	1.00
Ethylbenzene	22.50	BDL	3.30	1.80	19.30	6.10	11.00	BDL	BDL	1000.00
Xylenes	270.00	BDL	16.40	13.20	45.20	6.30	20.80	BDL	BDL	29.00
Naphthalene	11.00	BDL	8.00	7.00	BDL	27.40	NA	6.50	21.00	530.00
MTBE	11.50	BDL	BDL	BDL	NS	7.10	BDL	BDL	BDL	6.00
EDB	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	200.00
IPE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0004
Total VOCs	362.00	0.00	38.90	34.60	92.30	59.80	62.70	6.50	21.00	70.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,1 Dichloroethene	BDL	BDL	1.60	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	7.00
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	2.70	BDL	1.40	BDL	NA	BDL	BDL	200.00
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2800.00
Total CVOCS	0.00	0.00	5.30	0.00	1.40	BDL	BDL	BDL	BDL	0.02
Acenaphthene	BDL	NA	NA	BDL	BDL	BDL	0.00	0.00	0.00	
1-Methylnaphthalene	44.00	NA	NA	BDL	BDL	BDL	NA	BDL	11.00	80.00
2-Methylnaphthalene	38.00	NA	NA	BDL	BDL	BDL	NA	43.00	23.00	NS
Phenanthrene	12.00	NA	NA	24.00	2.60	BDL	NA	9.90	BDL	28.00
Fluorene	NA	NA	NA	NA	NA	BDL	NA	24.00	33.00	210.00
Pyrene	NA	NA	NA	NA	NA	NA	NA	12.00	15.00	280.00
Lead	NA	NA	NA	NA	NA	NA	NA	4.40	BDL	210.00
					NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-4										2L Standard
	8/29/99	3/8/00	5/3/00	6/14/00	12/7/00	6/15/01	12/28/01	6/6/02	9/12/02	4/15/03	
Benzene	BDL	BDL	5.00	1.80	3.10	BDL	BDL	1.10	BDL	NS	
Toluene	BDL	BDL	3.00	3.00	BDL	BDL	BDL	BDL	BDL	NS	1.00
Ethylbenzene	BDL	BDL	4.00	4.00	BDL	BDL	BDL	BDL	BDL	NS	1000.00
Xylenes	BDL	BDL	2.00	2.00	BDL	BDL	BDL	BDL	BDL	NS	29.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	530.00
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NS	21.00
EDB	BDL	BDL	5.00	NA	2.20	NA	1.20	BDL	BDL	NS	200.00
IPE	BDL	BDL	NA	BDL	BDL	BDL	BDL	NA	NA	NS	0.0004
Total VOCs	0.00	0.00	19.00	10.80	5.30	0.00	1.20	1.10	0.00	NS	70.00
1,1-Dichloroethane	BDL	BDL	NA	BDL	BDL	BDL	BDL	4.00	NN		
1,1 Dichloroethene	BDL	BDL	NA	1.70	BDL	BDL	BDL	BDL	BDL	NS	700.00
Trichloroethene	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	NS	7.00
1,1,1 Trichloroethane	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	NS	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	NS	200.00
Chloroethane	BDL	BDL	NA	2.80	3.10	BDL	BDL	NA	NA	NS	70.00
Vinyl Chloride	BDL	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	NS	2800.00
Total CVOCS	0.00	0.00	NA	2.00	1.20	BDL	BDL	BDL	BDL	NS	0.02
1-Methylnaphthalene	BDL	NA	NA	6.50	4.30	0.00	0.00	0.00	4.00	NS	
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NS	
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NS	28.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	210.00
											15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-5											2L Standard
	8/29/99	2/25/00	6/14/00	12/7/00	6/15/01	12/27/01	6/4/02	9/12/02	2/13/03	3/21/03	4/15/03	
Benzene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	1.00
Toluene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	1000.00
Ethylbenzene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	29.00
Xylenes	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	530.00
Naphthalene	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	21.00
MTBE	BDL	BDL	BDL	NS	NA	NA	NA	NA	NA	NA	NA	200.00
EDB	BDL	BDL	BDL	NS	NA	NA	BDL	NA	NA	NA	NA	0.0004
IPE	BDL	BDL	BDL	NS	NA	NA	NA	NA	NA	NA	NA	70.00
Total VOCs	0.00	0.00	0.00	NS	NA	NA	BDL	NA	NA	NA	NA	70.00
1,1-Dichloroethane	202.00	118.50	50.00	NS	100.00	98.20	96.00	150.00	46.00	21.00	12.00	700.00
1,2-Dichloroethane							1.00	1.60	BDL	BDL	BDL	0.38
1,1 Dichloroethene	260.00	BDL	170.00	NS	62.00	88.80	85.00	170.00	49.00	16.00	9.00	7.00
Trichloroethene	67.20	BDL	65.60	NS	34.40	40.90	38.00	39.00	16.00	7.20	4.20	2.80
1,1,1 Trichloroethane	518.00	BDL	265.00	NS	198.00	250.00	220.00	250.00	77.00	23.00	BDL	200.00
cis-,1,2-Dichloroethylene	93.60	63.40	72.40	NS	48.20	53.40	NA	NA	NA	NA	NA	70.00
1,1,2,2-Tetrachloroethane	BDL	BDL	1.40	NS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL
1,1,2-Trichloroethane	BDL	BDL	1.60	NS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL
Chloroethane	7.00	5.00	6.00	NS	4.40	1.40	2.40	4.40	BDL	BDL	BDL	2800.00
Vinyl Chloride	30.70	20.00	24.60	NS	12.60	4.70	BDL	27.00	7.60	2.70	1.50	0.02
Total CVOCS	1178.50	206.90	656.60	0.00	459.60	537.40	442.40	642.00	195.60	69.90	26.70	NS
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	28.00
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	210.00
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	15.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-6							2L Standard
	10/4/99	12/17/9	6/14/00	12/7/00	6/15/01	12/29/01	4/15/03	
Benzene	BDL	2.20	BDL	BDL	NA	NA	NA	
Toluene	BDL	BDL	BDL	BDL	NA	NA	NA	
Ethylbenzene	BDL	BDL	BDL	BDL	NA	NA	NA	1.00
Xylenes	BDL	BDL	BDL	BDL	NA	NA	NA	1000.00
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	NA	29.00
MTBE	BDL	BDL	BDL	BDL	NA	NA	NA	530.00
EDB	BDL	2.10	BDL	BDL	NA	NA	NA	21.00
IPE	BDL	BDL	BDL	BDL	NA	NA	NA	200.00
Total VOCs	0.00	4.30	0.00	0.00	NA	NA	NA	0.0004
Fluorene	BDL	5.00	BDL	NA	NA	NA	NA	70.00
Phenanthrene	BDL	4.00	BDL	NA	NA	NA	NA	
1,1-Dichloroethane	14.70	7.80	5.80	5.00	2.10	4.10	49.00	280.00
1,1 Dichloroethene	26.80	4.90	8.60	1.90	1.40	4.80	28.00	210.00
Trichloroethene	10.90	3.20	BDL	1.80	1.10	3.20	13.00	700.00
1,1,1 Trichloroethane	53.20	4.00	15.50	7.20	4.90	17.50	66.00	7.00
cis-,1,2-Dichloroethene	6.80	6.80	BDL	BDL	BDL	1.80	BDL	2.80
Chloroethane	BDL	BDL	5.20	BDL	BDL	BDL	BDL	200.00
Vinyl Chloride	3.10	BDL	1.90	BDL	BDL	BDL	BDL	70.00
Total CVOCS	115.50	26.70	37.00	15.90	9.50	31.40	165.10	MDL
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Lead	NA	NA	NA	NA	NA	NA	NA	210.00
								15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-7										2L Standard
	10/4/99	6/14/00	6/23/00	7/6/00	12/7/00	6/15/01	12/28/01	6/6/02	9/12/02	4/15/03	
Benzene	BDL	BDL	BDL	9.50	BDL	NA	NA	BDL	NA	NA	
Toluene	BDL	BDL	BDL	4.00	BDL	NA	NA	BDL	NA	NA	1.00
Ethylbenzene	BDL	BDL	BDL	1.40	BDL	NA	NA	BDL	NA	NA	1000.00
Xylenes	BDL	BDL	BDL	10.60	BDL	NA	NA	BDL	NA	NA	29.00
Naphthalene	BDL	BDL	144.00	BDL	BDL	NA	NA	BDL	NA	NA	530.00
MTBE	BDL	BDL	BDL	2.80	BDL	NA	NA	BDL	BDL	BDL	21.00
EDB	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	NA	NA	200.00
IPE	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	0.0004
Total VOCs	0.00	0.00	224.00	28.30	0.00	NA	NA	BDL	NA	NA	70.00
1,1-Dichloroethane	10.00	1.70	BDL	2.40	BDL	BDL	1.70	1.50	3.10	24.00	
1,1 Dichloroethene	1.60	1.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
1,1,1 Trichloroethane	BDL	BDL	BDL	2.60	BDL	BDL	1.70	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	3.80	1.90	BDL	2.20	BDL	BDL	1.20	NA	BDL	BDL	200.00
Chloroethane	BDL	BDL	BDL	1.60	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	6.00	3.90	BDL	BDL	1.00	BDL	BDL	BDL	BDL	BDL	MDL
Total CVOCS	21.40	9.40	0.00	8.80	0.00	1.00	4.60	1.50	3.10	32.60	0.02
Lead	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	RW-8							2L Standard
	6/14/00	12/7/00	6/15/00	12/28/01	6/4/02	9/12/02	Date 4/15/03	
Benzene	10.10	BDL	BDL	NS	BDL	BDL	15.00	
Toluene	1.20	BDL	BDL	NS	BDL	BDL	BDL	1.00
Ethylbenzene	3.10	BDL	BDL	NS	13.00	BDL	2.00	1000.00
Xylenes	4.90	BDL	BDL	NS	BDL	BDL	7.60	29.00
Naphthalene	BDL	BDL	BDL	NS	NA	BDL	2.90	530.00
MTBE	BDL	2.50	BDL	NS	BDL	BDL	BDL	21.00
EDB	BDL	BDL	BDL	NS	NA	NA	NA	200.00
IPE	BDL	BDL	BDL	NS	BDL	8.80	24.00	0.0004
Total VOCs	19.30	2.50	0.00	NS	13.00	8.80	51.50	70.00
Acenaphthene	BDL	BDL	BDL	NS	BDL	BDL	2.20	
1-Methylnaphthalene	BDL	BDL	BDL	NS	BDL	BDL	8.90	80.00
2-Methylnaphthalene	BDL	BDL	BDL	NS	BDL	BDL	3.30	NS
Fluorene	BDL	BDL	BDL	NS	BDL	BDL	2.60	14.00
Phenanthrene	BDL	BDL	BDL	NS	BDL	BDL	2.30	280.00
1,1-Dichloroethane	BDL	BDL	BDL	NS	BDL	NA	BDL	210.00
1,1 Dichloroethene	BDL	BDL	BDL	NS	BDL	NA	BDL	700.00
Trichloroethene	BDL	BDL	BDL	NS	BDL	NA	BDL	7.00
1,1,1 Trichloroethane	BDL	BDL	BDL	NS	BDL	NA	BDL	2.80
cis-,1,2-Dichloroethene	BDL	BDL	BDL	NS	BDL	NA	BDL	200.00
Chloroethane	BDL	BDL	BDL	NS	NA	NA	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	NS	BDL	NA	BDL	MDL
Total CVOCS	0.00	0.00	0.00	NS	0.00	0.00	0.00	0.02
Phenanthrene	BDL	BDL	BDL	NS	NA	BDL	BDL	
Lead	NA	NA	NA	NS	NA	NA	NA	210.00 15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results Summary

Constituent	Date										2L Standard
	5/19/00	6/14/00	9/8/00	12/7/00	6/15/01	12/27/01	6/6/02	9/12/02	4/15/03		
Benzene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	1.00	
Toluene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	1000.00	
Ethylbenzene	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	29.00	
Xylenes	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	530.00	
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	21.00	
MTBE	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	200.00	
EDB	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	0.0004	
IPE	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	BDL	70.00	
Total VOCs	0.00	0.00	0.00	0.00	NA	NA	0.00	0.00	0.00		
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	BDL	1.10	NS	
1,1-Dichloroethane	84.50	75.60	33.00	84.20	78.60	180.00	130.00	120.00	56.00	700.00	
1,1 Dichloroethene	75.10	64.20	38.50	83.40	78.60	102.00	71.00	81.00	39.00	7.00	
Trichloroethene	16.00	15.00	4.60	17.50	21.70	26.00	13.00	12.00	1.80	2.80	
1,1,1 Trichloroethane	50.60	40.20	16.30	37.60	38.90	65.00	31.00	27.00	BDL	200.00	
cis-,1,2-Dichloroethylene	26.80	23.70	11.00	28.00	21.70	42.00	NA	NA	NA	70.00	
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL	
Vinyl Chloride	8.50	9.30	1.30	15.10	14.20	12.00	8.40	8.20	4.80	0.02	
Total CVOCS	261.50	228.00	104.70	265.80	253.70	427.00	253.40	248.20	101.60		
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00	

123 files/13/139412/9412rwax.xls

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Appendix A

Appendix A
Monitoring Well Construction Records

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section
 WELL CONTRACTOR (INDIVIDUAL) NAME (print) Peter Florea CERTIFICATION # 221
 WELL CONTRACTOR COMPANY NAME McCall Bros. Inc. PHONE # (704) 349-1506
 STATE WELL CONSTRUCTION PERMIT# _____ ASSOCIATED WQ PERMIT# _____
 (if applicable) (if applicable) 44-237232

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
 Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:
 Nearest Town: Durham County Durham
Denfield St.
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
 (check appropriate box)
 Latitude/longitude of well location

3. OWNER: Teer Company
 Address Denfield Street
 (Street or Route No.)
Durham NC
 City or Town _____ State _____ Zip Code _____
 (____)-_____

(degrees/minutes/seconds)
 Latitude/longitude source: GPS Topographic map
 (check box)

DEPTH DRILLING LOG
 From 40 To 90 Formation Description Grey Sandstone

4. DATE DRILLED 10-8-02

5. TOTAL DEPTH: 90

6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 40 FT.
 (Use "+" if Above Top of Casing)

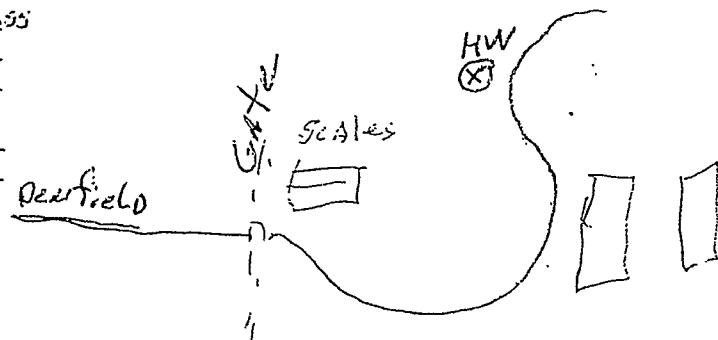
8. TOP OF CASING IS 0 FT. Above Land Surface*
 *Top of casing terminated at or below land surface requires a variance in accordance with 15A NCAC 2C .0118.

9. YIELD (gpm): 0 METHOD OF TEST _____

10. WATER ZONES (depth): 0

LOCATION SKETCH

Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



11. DISINFECTION: Type 0 Amount _____

12. CASING: Depth Diameter Wall Thickness or Weight/Ft. Material
 From 0 To 40 Ft. 6 Sch 40 5 in. less
 From 0 To 85 Ft. 2 Sch 40 PVC
 From _____ To _____ Ft. _____

13. GROUT: Depth Material Method
 From 0 To 80 Ft. PORTLAND Pump.

14. SCREEN: Depth Diameter Slot Size Material
 From 85 To 90 Ft. 2 in. .010 in. PVC
 From _____ To _____ Ft. _____ in. _____ in.

15. SAND/GRAVEL PACK: Depth Size Material
 From 0 To 83 Ft. #2 SAND
 From _____ To _____ Ft. _____

16. REMARKS: Bentonite 80 to 83 MW-26D

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Peter Florea

10-25-02

SIGNATURE OF PERSON CONSTRUCTING THE WELL

DATE

44237232

WELL CONSTRUCTION RECORD

MW-29

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Kenneth L. McDavid CERTIFICATION # 2219WELL CONTRACTOR COMPANY NAME McColl Bros. PHONE # ()STATE WELL CONSTRUCTION PERMIT# 3 ASSOCIATED WQ PERMIT# _____
(if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:

Nearest Town: Durham County Durham

(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting

Ridge Slope Valley Flat

(check appropriate box)

Latitude/longitude of well location

(degrees/minutes/seconds)

Latitude/longitude source: GPS Topographic map
(check box)3. OWNER: Kelly Tree QuarryAddress 5013 Wentfield Street

(Street or Route No.)

Durham N.C.

City or Town _____ State _____ Zip Code _____

(_____-) _____

Area code- Phone number 919-360-024. DATE DRILLED 9-30-025. TOTAL DEPTH: 14'6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: _____ FT.

(Use "--" if Above Top of Casing)

8. TOP OF CASING IS 0 FT. Above Land Surface*

*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.

9. YIELD (gpm): _____ METHOD OF TEST _____

10. WATER ZONES (depth): _____

11. DISINFECTION: Type _____ Amount _____

12. CASING: Depth _____ Diameter _____ Wall Thickness _____

From 0 To 4 Ft. 2 .060 PVC

From _____ To _____ Ft. _____ _____

From _____ To _____ Ft. _____ _____

13. GROUT: Depth _____ Material _____ Method _____

From 0 To 1 Ft. Portland poise

From _____ To _____ Ft. _____ _____

14. SCREEN: Depth _____ Diameter _____ Slot Size _____ Material _____

From 4 To 14 Ft. 2 in. .10 in. PVC

From _____ To _____ Ft. _____ in. _____

15. SAND/GRAVEL PACK: Depth _____ Size _____ Material _____

From 2 To 14 Ft. .2 Silica

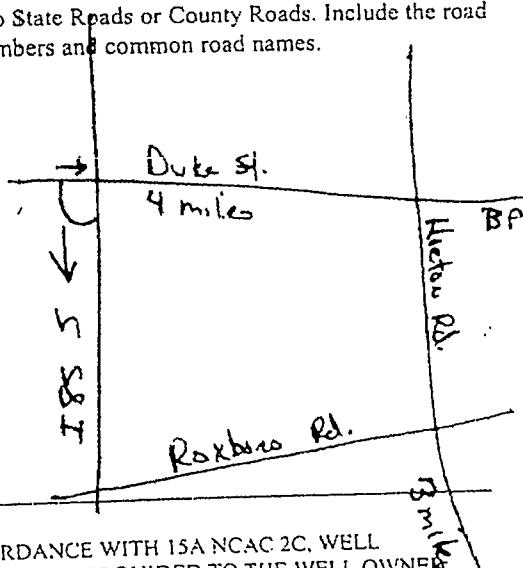
From _____ To _____ Ft. _____

16. REMARKS: Bentonite 1-2

DEPTH DRILLING LOG

From _____ To _____ Formation Description _____

From _____ To _____

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Kenneth L. McDavid
SIGNATURE OF PERSON CONSTRUCTING THE WELL

DATE 9-30-02

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC
27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

44237232

WELL CONSTRUCTION RECORD

MW-291

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Kenneth C McDonald CERTIFICATION # 2219WELL CONTRACTOR COMPANY NAME McColl Bros PHONE # ()STATE WELL CONSTRUCTION PERMIT# 3 ASSOCIATED WQ PERMIT# (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
 Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:

Nearest Town: Durham County Durham

(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

3. OWNER: Nello Tree QuarryAddress 5013 Bedford Street

(Street or Route No.)

Durham NC

City or Town State

Zip Code ()-

Area code- Phone number

4. DATE DRILLED 9.30.025. TOTAL DEPTH: 336. DOES WELL REPLACE EXISTING WELL? YES NO 7. STATIC WATER LEVEL Below Top of Casing: 0 FT.
(Use "+" if Above Top of Casing)

8. TOP OF CASING IS _____ FT. Above Land Surface*

*Top of casing terminated at/or below land surface requires a
variance in accordance with ISA NCAC 2C .0118.

9. YIELD (gpm): _____ METHOD OF TEST _____

10. WATER ZONES (depth): _____

11. DISINFECTION: Type _____ Amount _____

12. CASING: Depth Diameter Wall Thickness or Weight/Ft. Material

From 0 To 18 Ft. 2 SCH40 PVC

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

13. GROUT: Depth Material Method

From 0 To 13 Ft. portland poce

From _____ To _____ Ft. _____

14. SCREEN: Depth Diameter Slot Size Material

From 18 To 33 Ft. 2 in. .10 in. PVC

From _____ To _____ Ft. _____ in. _____ in.

15. SAND/GRAVEL PACK: Depth Size Material

From 16 To 33 Ft. .25 silica

From _____ To _____ Ft. _____

16. REMARKS: Bentonite 13.16

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH ISA NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Topographic/Land setting

Ridge Slope Valley Flat

(check appropriate box)

Latitude/longitude of well location

(degrees/minutes/seconds)

Latitude/longitude source: GPS Topographic map
(check box)

DEPTH

From 0 To 18From 18 To 33

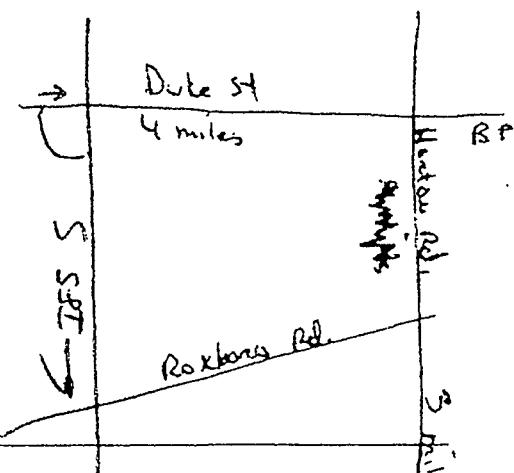
DRILLING LOG

Formation Description

fineTuassic

LOCATION SKETCH

Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



9.30.02

DATE

SIGNATURE OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality, Groundwater Section, 1636 Mail Service Center - Raleigh, NC 27699-1636 Phone No. (919) 733-3221, within 30 days.

GW-1 REV. 07/2001

Appendix B

Appendix B

Laboratory Analytical Results
and
Chain of Custody



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-1
Collected By : Davis / Dwyer
Collection Date : 04/15/03 09:50

ESC Sample # : L110971-01

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 24, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-1
Collected By : Davis / Dwyer
Collection Date : 04/15/03 09:50

ESC Sample # : L110971-01

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

Cheli Boucher

Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, W7 - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:26



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 24, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 16, 2003
Description : Nello Teer

ESC Sample # : L110971-02

Sample ID : MW-7

Site ID :

Collected By : Davis / Dwyer
Collection Date : 04/15/03 10:05

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 24, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 16, 2003
Description : Nello Teer

ESC Sample # : L110971-02

Sample ID : MW-7

Site ID :

Collected By : Davis / Dwyer
Collection Date : 04/15/03 10:05

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:26

Cheli Boucher
Cheli Boucher, ESC Representative

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-9
Collected By : Davis / Dwyer
Collection Date : 04/15/03 09:10

ESC Sample # : L110971-03
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:26


**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
 Quantum Environmental Inc.
 6001 Chapel Hill Road, Suite 108
 Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
 Description : Nello Teer

ESC Sample # : L110971-04

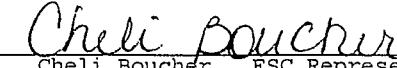
Sample ID : MW-11

Site ID :

Collected By : Davis / Dwyer
 Collection Date : 04/15/03 09:20

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
Naphthalene	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601MS	04/18/03	1


Cheli Boucher
 Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:26



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-15I
Collected By : Davis / Dwyer
Collection Date : 04/15/03 11:00

ESC Sample # : L110971-05

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-15I
Collected By : Davis / Dwyer
Collection Date : 04/15/03 11:00

ESC Sample # : L110971-05

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:26

Cheli Boucher
Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-17
Collected By : Davis / Dwyer
Collection Date : 04/15/03 09:45

ESC Sample # : L110971-06

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	6.2	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	1.3	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	1.5	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-17
Collected By : Davis / Dwyer
Collection Date : 04/15/03 09:45

ESC Sample # : L110971-06

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WI - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-18
Collected By : Davis / Dwyer
Collection Date : 04/15/03 10:36

ESC Sample # : L110971-07
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-18
Collected By : Davis / Dwyer
Collection Date : 04/15/03 10:36

ESC Sample # : L110971-07
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-23
Collected By : Davis / Dwyer
Collection Date : 04/15/03 11:13

ESC Sample # : L110971-08

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	15.	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	18.	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	4.6	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	1.7	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	6.8	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37123
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-23
Collected By : Davis / Dwyer
Collection Date : 04/15/03 11:13

ESC Sample # : L110971-08

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	1.2	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benz(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benz(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benz(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benz(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benz(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	1.8	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	1.6	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	1.6	1.0	ug/l	610MS	04/21/03	1
Naphthalene	5.0	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	1.6	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27

Cheli Boucher

Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-25
Collected By : Davis / Dwyer
Collection Date : 04/15/03 13:12

ESC Sample # : L110971-09

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	13.	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	15.	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	13.	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	3.6	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	1.7	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-25
Collected By : Davis / Dwyer
Collection Date : 04/15/03 13:12

ESC Sample # : L110971-09

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	6.3	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27

Cheli Boucher

Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-26
Collected By : Davis / Dwyer
Collection Date : 04/15/03 10:05

ESC Sample # : L110971-10

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	1.0	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 24, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-26
Collected By : Davis / Dwyer
Collection Date : 04/15/03 10:05

ESC Sample # : L110971-10

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WY - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 24, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 16, 2003
Description : Nello Teer

ESC Sample # : L110971-11

Sample ID : MW-25I

Site ID :

Collected By : Davis / Dwyer
Collection Date : 04/15/03 12:48

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	17.	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	16.	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	2.8	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-25I
Collected By : Davis / Dwyer
Collection Date : 04/15/03 12:48

ESC Sample # : L110971-11
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	4.2	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

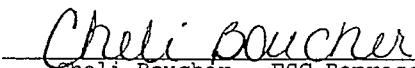
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-29
Collected By : Davis / Dwyer
Collection Date : 04/15/03 12:40

ESC Sample # : L110971-12

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-29
Collected By : Davis / Dwyer
Collection Date : 04/15/03 12:40

ESC Sample # : L110971-12

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	1.9	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	2.0	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	16.	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	1.2	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27

Cheli Boucher
Cheli Boucher, ESC Representative

**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : MW-29I
Collected By : Davis / Dwyer
Collection Date : 04/15/03 13:30

ESC Sample # : L110971-13

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	6.0	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	7.7	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	3.4	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer

Sample ID : MW-29I

Collected By : Davis / Dwyer
Collection Date : 04/15/03 13:30

ESC Sample # : L110971-13

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	1.0	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27

Cheli Boucher
Cheli Boucher, ESC Representative


**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
 Quantum Environmental Inc.
 6001 Chapel Hill Road, Suite 108
 Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
 Description : Nello Teer
 Sample ID : RW-1
 Collected By : Davis / Dwyer
 Collection Date : 04/15/03 15:15

ESC Sample # : L110971-14

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	5.3	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	1.3	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	2.4	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	1.1	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-1
Collected By : Davis / Dwyer
Collection Date : 04/15/03 15:15

ESC Sample # : L110971-14

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/21/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/21/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/21/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/21/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/21/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/21/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/21/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/21/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

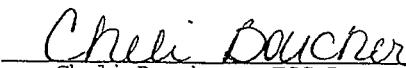
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-3
Collected By : Davis / Dwyer
Collection Date : 04/15/03 13:55

ESC Sample # : L110971-15
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
Naphthalene	21.	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	10.	ug/l	610MS	04/22/03	10
Acenaphthene	11.	10.	ug/l	610MS	04/22/03	10
Acenaphthylene	BDL	10.	ug/l	610MS	04/22/03	10
Benzo(a)anthracene	BDL	10.	ug/l	610MS	04/22/03	10

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-3
Collected By : Davis / Dwyer
Collection Date : 04/15/03 13:55

ESC Sample # : L110971-15
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)pyrene	BDL	10.	ug/l	610MS	04/22/03	10
Benzo(b)fluoranthene	BDL	10.	ug/l	610MS	04/22/03	10
Benzo(g,h,i)perylene	BDL	10.	ug/l	610MS	04/22/03	10
Benzo(k)fluoranthene	BDL	10.	ug/l	610MS	04/22/03	10
Chrysene	BDL	10.	ug/l	610MS	04/22/03	10
Dibenz(a,h)anthracene	BDL	10.	ug/l	610MS	04/22/03	10
Fluoranthene	BDL	10.	ug/l	610MS	04/22/03	10
Fluorene	15.	10.	ug/l	610MS	04/22/03	10
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	610MS	04/22/03	10
1-Methylnaphthalene	23.	10.	ug/l	610MS	04/22/03	10
2-Methylnaphthalene	BDL	10.	ug/l	610MS	04/22/03	10
Naphthalene	BDL	10.	ug/l	610MS	04/22/03	10
Phenanthrene	33.	10.	ug/l	610MS	04/22/03	10
Pyrene	BDL	10.	ug/l	610MS	04/22/03	10

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

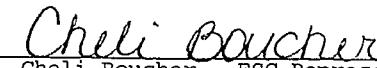
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


Cheli Boucher, ESC Representative



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-5
Collected By : Davis / Dwyer
Collection Date : 04/15/03 14:30

ESC Sample # : L110971-16

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	12.	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	9.0	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	4.2	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	1.5	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233


**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
 Quantum Environmental Inc.
 6001 Chapel Hill Road, Suite 108
 Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
 Description : Nello Teer
 Sample ID : RW-5
 Collected By : Davis / Dwyer
 Collection Date : 04/15/03 14:30

ESC Sample # : L110971-16

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo (b) fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo (g,h,i)perylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo (k) fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/22/03	1
Dibenz (a,h) anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/22/03	1
Indeno (1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/22/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


 Cheli Boucher, ESC Representative

**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-6
Collected By : Davis / Dwyer
Collection Date : 04/15/03 14:45

ESC Sample # : L110971-17

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	49.	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	28.	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	66.	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	13.	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	9.1	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233


**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
 Quantum Environmental Inc.
 6001 Chapel Hill Road, Suite 108
 Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
 Description : Nello Teer
 Sample ID : RW-6
 Collected By : Davis / Dwyer
 Collection Date : 04/15/03 14:45

ESC Sample # : L110971-17

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/22/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/22/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/22/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
 Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


 Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-7
Collected By : Davis / Dwyer
Collection Date : 04/15/03 15:00

ESC Sample # : L110971-18

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	24.	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	4.5	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	4.1	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-7
Collected By : Davis / Dwyer
Collection Date : 04/15/03 15:00

ESC Sample # : L110971-18

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/22/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/22/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/22/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

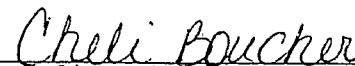
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27


Cheli Boucher

Cheli Boucher, ESC Representative

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-8
Collected By : Davis / Dwyer
Collection Date : 04/15/03 14:00

ESC Sample # : L110971-19

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	15.	1.0	ug/l	601/602MS	04/18/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Di-isopropyl ether	24.	5.0	ug/l	601/602MS	04/18/03	1
Ethylbenzene	2.0	1.0	ug/l	601/602MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/18/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/18/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/18/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/18/03	1
o-Xylene	1.6	1.0	ug/l	601/602MS	04/18/03	1
m&p-Xylene	6.0	2.0	ug/l	601/602MS	04/18/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WI - 233



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer

ESC Sample # : L110971-19

Sample ID : RW-8

Site ID :

Collected By : Davis / Dwyer
Collection Date : 04/15/03 14:00

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthene	2.2	1.0	ug/l	610MS	04/22/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/22/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluorene	2.6	1.0	ug/l	610MS	04/22/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
1-Methylnaphthalene	8.9	1.0	ug/l	610MS	04/22/03	1
2-Methylnaphthalene	3.3	1.0	ug/l	610MS	04/22/03	1
Naphthalene	2.9	1.0	ug/l	610MS	04/22/03	1
Phenanthrene	2.3	1.0	ug/l	610MS	04/22/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40560, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27

Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-9
Collected By : Davis / Dwyer
Collection Date : 04/15/03 14:15

ESC Sample # : L110971-20
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Bromoform	BDL	1.0	ug/l	601MS	04/18/03	1
Bromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601MS	04/18/03	1
Chloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601MS	04/18/03	1
Chloroform	BDL	1.0	ug/l	601MS	04/18/03	1
Chloromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601MS	04/18/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethane	56.	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1-Dichloroethene	39.	1.0	ug/l	601MS	04/18/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601MS	04/18/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601MS	04/18/03	1
Methylene chloride	BDL	5.0	ug/l	601MS	04/18/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Tetrachloroethene	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601MS	04/18/03	1
Trichloroethene	1.8	1.0	ug/l	601MS	04/18/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601MS	04/18/03	1
Vinyl chloride	4.8	1.0	ug/l	601MS	04/18/03	1
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

 ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 24, 2003

Date Received : April 16, 2003
Description : Nello Teer
Sample ID : RW-9
Collected By : Davis / Dwyer
Collection Date : 04/15/03 14:15

ESC Sample # : L110971-20

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/22/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/22/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
1-Methylnaphthalene	1.1	1.0	ug/l	610MS	04/22/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/22/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/23/03 15:05 Printed: 04/24/03 14:27

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L110971-01	1,1-Dichloroethene	J4
	cis-1,3-Dichloropropene	J4
	1,1,2,2-Tetrachloroethane	J4
	Trichloroethene	J4
L110971-02	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-03	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
	1,1,2,2-Tetrachloroethane	J4
L110971-04	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-05	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-06	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-07	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-08	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-09	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4
L110971-10	Bromomethane	J6
	Chloroethane	J4J5
	2-Chloroethyl vinyl ether	J4J6
L110971-11	Bromomethane	J4
	Chloroethane	J4
L110971-12	Bromomethane	J4
	Chloroethane	J4
	Ethylbenzene	J4
L110971-13	Bromomethane	J4
	Chloroethane	J4
	Ethylbenzene	J4
L110971-14	Bromomethane	J4
	Chloroethane	J4
	Ethylbenzene	J4
L110971-15	Bromomethane	J4
	Chloroethane	J4
L110971-16	Bromomethane	J5J4
	Chloroethane	J5J4
	2-Chloroethyl vinyl ether	J6
	1,1,1-Trichloroethane	J5

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

Control Limits

2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	72-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	79-120
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	66-131

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Quantum Environmental Inc.

6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Report to:
Mr. Mike Dwyer

Email:
mdwyer@QUANTUMCOs.c

Project Description: **Nello Teer**

City/State
Collected
NC

Phone: (919) 852-3595
FAX: (919) 852-1997

Client Project #:
0013-94-012

Lab Project #
OUANTUM-001394012

Collected by (print):
DAVID DWYER

Site/Facility ID#:

P.O.#:

Collected by (Signature):
DAVID DWYER

Rush? (Lab MUST Be Notified)

Same Day 200%
Next Day 100%
Two Day 50%

Date Results Needed

Email? No Yes
FAX? No Yes

Analysis/Container/Preservative

SV610 1L-Amb-NoPres	V601/602 40mlAmb-HCl	602

Chain of Custody
Page 1 of 3

Prepared by:

**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (800) 767-5859
FAX (615) 758-5859

CoCode: **OUANTUM** (lab use only)

Template/Prelogin **T18182/P77083**

Cooler #: *2/26/03*
Shipped Via: **FedEX Ground** *CR*

Remarks/Contaminant Sample # (lab only)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV610 1L-Amb-NoPres	V601/602 40mlAmb-HCl	602	Remarks/Contaminant	Sample # (lab only)
MW-1	G	GW		4/15/03	9:50	4	X	X	X		L110971-01
MW-7		GW		"	1005	4	X	X	X		-02
MW-9		GW		"	0910	4	X	X	X		-03
MW-11		GW		"	0920	4	X	X			-04
MW-13 <i>- TWD</i>		GW				4	X	X	X	<i>No 610 (COI only, No 610)</i>	
MW-15		GW		4/15	1100	4	X	X	X		-05
MW-17		GW			0945	4	X	X			-06
MW-18		GW		1	1036	4	X	X			-07
MW-20B <i>- TWD</i>		GW				4	X	X	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <i>MDW</i>	Date: <i>4/15/03</i>	Time: <i>1650</i>	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) <i>OK</i>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <i>2.46</i> Bottles Received: <i>76+2+6</i>	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>W.E.R. SCS</i>	Date: <i>4/16</i> Time: <i>9:00</i>	pH Checked: NCF:

Quantum Environmental Inc.

6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Alternate billing information:

Report to:
Mr. Mike Dwyer

Email:
mdwyer@QUANTUMCOs.c

Project Description: **Nello Teer**

City/State Collected

Phone: (919) 852-3595
FAX: (919) 852-1997

Client Project #:
0013-94-012

Lab Project #
OUANTUM-001394012

Collected by (print):
DAVIS/DWYER

Site/Facility ID#:

P.O.#:

Collected by (signature):


Rush? (Lab MUST Be Notified)

Same Day 200%
 Next Day 100%
 Two Day 50%

Date Results Needed

Email? No Yes
FAX? No Yes

No. of Cntrs

Analysis/Container/Preservative

SV610 1L-Amb-NoPres
V601/40ml Amb-HCl

602

Prepared by:


**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (800) 767-5859
FAX (615) 758-5859

CoCode: **OUANTUM** (lab use only)

Template/Prelogin **T18182/P77083**

Cooler #: **2126/03**

Shipped Via: **FedEX Ground**

Remarks/Contaminant Sample # (lab only)

110971-08

-09

-10

-11

-12

-13

-14

Packed on Ice N

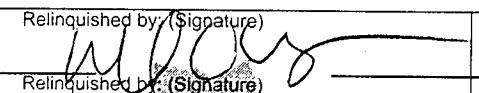
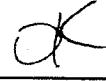
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	SV610 1L-Amb-NoPres	V601/40ml Amb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-23	G	GW		4/15/03	1113	4	X X X		110971-08
MW-25		GW			1312	4	X X		-09
MW-26		GW			1005	4	X X		-10
MW-25f		GW			1248	4	X X		-11
MW-28D - ruf		GW				4	X X X		
MW-29		GW			1246	4	X X X		-12
MW-29E		GW			1330	4	X X X		-13
RW-1		GW			1515	4	X X X		-14
RW-2 - TWD		GW				4	X X X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) 	Date: 4/15/03	Time: 1650	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) 
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.4° Bottles Received: 76+2+6	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/16 Time: 9:00	pH Checked: NCF:

Quantum Environmental Inc.

6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 3 of 3

Report to:
Mr. Mike Dwyer

Email:
mdwyer@QUANTUMCOs.c

Project Description: **Nello Teer**

City/State
Collected
NC

Phone: (919) 852-3595
FAX: (919) 852-1997

Client Project #:
0013-94-012

Lab Project #
OUANTUM-001394012

Collected by (print):
DwYer

Site/Facility ID#:

P.O. #:

Collected by (signature):
JF

Rush? (Lab MUST Be Notified)

Same Day 200%
 Next Day 100%
 Two Day 50%

Date Results Needed

Email? No Yes
FAX? No Yes

SV610 1L-Amb-NoPres

V601 ~~40ml~~ Amb-HCl

602

No.
of
Cntrs

Packed on Ice N Y

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

RW-3

G

GW

4/15/03

1355

4

X

X

RW-5

1

GW

1430

1430

4

X

X

RW-6

1

GW

1445

1445

4

X

X

RW-7

1

GW

1500

1500

4

X

X

RW-8

1

GW

1400

1400

4

X

X

RW-9

1

GW

1415

1415

4

X

X

CoCode: **OUANTUM** (lab use only)

Template/Prelogin **T18182/P77083**

Cooler #: *266/03*

Shipped Via: **FedEX Ground**

Remarks/Contaminant Sample # (lab only)

L10971 -15

-16

-17

-18

-19

-20

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)

Date: *4/15/03* Time: *1650*

Received by: (Signature)

Samples returned via: UPS
 FedEx Courier

Condition: (lab use only)

OK

Relinquished by: (Signature)

Date: _____ Time: _____

Received by: (Signature)

Temp: *24* Bottles Received: *76+2+b*

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)

Date: *4/16* Time: *9:00*

pH Checked: _____ NCF: _____



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 30, 2003

Date Received : April 17, 2003
Description : Nello Teer

ESC Sample # : L111205-01

Sample ID : MW-20D
Collected By : M. Dwyer
Collection Date : 04/16/03 10:30

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	04/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/21/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 30, 2003

Date Received : April 17, 2003
Description : Nello Teer
Sample ID : MW-20D
Collected By : M. Dwyer
Collection Date : 04/16/03 10:30

ESC Sample # : L111205-01
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
-----------	--------	------------	-------	--------	------	------

Polynuclear Aromatic Hydrocarbons

Extract Date

Anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/22/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/22/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/22/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/22/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/22/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/22/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/22/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/22/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/22/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/30/03 16:05 Printed: 04/30/03 16:05

Cheli Boucher

Cheli Boucher, ESC Representative



ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

TAX I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 30, 2003

Date Received : April 17, 2003
Description : Nello Tier

ESC Sample # : L111205-02

Sample ID : MW-28D

Site ID :

Collected By : M. Dwyer
Collection Date : 04/16/03 11:20

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethane	25.	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethene	20.	1.0	ug/l	601/602MS	04/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	04/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,1-Trichloroethane	4.9	1.0	ug/l	601/602MS	04/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichloroethene	3.3	1.0	ug/l	601/602MS	04/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/21/03	1
Vinyl chloride	1.5	1.0	ug/l	601/602MS	04/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/21/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 30, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 17, 2003
Description : Nello Tier
Sample ID : MW-28D
Collected By : M. Dwyer
Collection Date : 04/16/03 11:20

ESC Sample # : L111205-02

Site ID :

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
-----------	--------	------------	-------	--------	------	------

Polynuclear Aromatic Hydrocarbons

Extract Date

Anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/23/03	1

Cheli Boucher
Cheli Boucher, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/30/03 16:05 Printed: 04/30/03 16:05



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 30, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 17, 2003
Description : Nello Tier

ESC Sample # : L111205-03

Sample ID : MW-13

Site ID :

Collected By : M. Dwyer
Collection Date : 04/16/03 12:30

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethane	5.9	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethene	4.1	1.0	ug/l	601/602MS	04/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	04/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/21/03	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

April 30, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 17, 2003
Description : Nello Tier

ESC Sample # : L111205-03

Sample ID : MW-13

Site ID :

Collected By : M. Dwyer
Collection Date : 04/16/03 12:30

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
-----------	--------	------------	-------	--------	------	------

Polynuclear Aromatic Hydrocarbons

Extract Date

Anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/23/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/30/03 16:05 Printed: 04/30/03 16:05

Cheli Boucher
Cheli Boucher, ESC Representative



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 30, 2003

Date Received : April 17, 2003
Description : Nello Tier
Sample ID : MW-13
Collected By : M. Dwyer
Collection Date : 04/16/03 12:30

ESC Sample # : L111205-03
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(a)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(a)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/23/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/30/03 16:05 Printed: 04/30/03 16:05

Cheli Boucher
Cheli Boucher, ESC Representative

**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

April 30, 2003

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Date Received : April 17, 2003
Description : Nello Tier

ESC Sample # : L111205-04

Sample ID : RW-2

Site ID :

Collected By : M. Dwyer
Collection Date : 04/16/03 15:00

Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromoform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Bromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	04/21/03	1
Chloroform	BDL	1.0	ug/l	601/602MS	04/21/03	1
Chloromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	04/21/03	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Di-isopropyl ether	9.8	5.0	ug/l	601/602MS	04/21/03	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	04/21/03	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	04/21/03	1
Naphthalene	BDL	5.0	ug/l	601/602MS	04/21/03	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	04/21/03	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	04/21/03	1
Toluene	BDL	5.0	ug/l	601/602MS	04/21/03	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	04/21/03	1
o-Xylene	BDL	1.0	ug/l	601/602MS	04/21/03	1
m&p-Xylene		2.0	ug/l	601/602MS	04/21/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

April 30, 2003

Date Received : April 17, 2003
Description : Nello Tier
Sample ID : RW-2
Collected By : M. Dwyer
Collection Date : 04/16/03 15:00

ESC Sample # : L111205-04
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Extract Date						
Anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthene	BDL	1.0	ug/l	610MS	04/23/03	1
Acenaphthylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benz(a)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Benz(a)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
Benz(b)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Benz(g,h,i)perylene	BDL	1.0	ug/l	610MS	04/23/03	1
Benz(k)fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Chrysene	BDL	1.0	ug/l	610MS	04/23/03	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluoranthene	BDL	1.0	ug/l	610MS	04/23/03	1
Fluorene	BDL	1.0	ug/l	610MS	04/23/03	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	610MS	04/23/03	1
1-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
2-Methylnaphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Naphthalene	BDL	1.0	ug/l	610MS	04/23/03	1
Phenanthrene	BDL	1.0	ug/l	610MS	04/23/03	1
Pyrene	BDL	1.0	ug/l	610MS	04/23/03	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/30/03 16:05 Printed: 04/30/03 16:06

Cheli Boucher
Cheli Boucher, ESC Representative

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L111205-01	Chloroethane	J4
L111205-02	2-Chloroethyl vinyl ether	J4
L111205-03	Chloroethane	J4
L111205-04	2-Chloroethyl vinyl ether	J4
	Chloroethane	J4
	2-Chloroethyl vinyl ether	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

Control Limits

2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	72-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	79-120
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	66-131

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

		Alternate billing information:		Analysis/Container/Preservative				Chain of Custody Page <u>1</u> of <u>1</u>					
Quantum Env.				601/602+	610/204								
Report to:	Michael Duxter	Email:	bcleveland@sei-environment						Prepared by:				
Project Description:	Nello Ticer	City/State Collected	Duluth, NC						ENVIRONMENTAL SCIENCE CORP.				
Phone:	911-6523525	Client Project #:	0013-94-012						12065 Lebanon Road				
FAX:	911-6521447								Mt. Juliet, TN 37122				
Collected by (print):	M Duxter	Site/Facility ID#:							Phone (800) 767-5859				
Collected by (signature):	<i>M Duxter</i>	Rush? (Lab MUST Be Notified)	Date Results Needed		No. of Cntrs	FAX? No Yes						FAX (615) 758-5859	
Packed on Ice N		Same Day 200%				Email? No X Yes							
		Next Day 100%			FAX? No Yes								
		Two Day 50%											
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time							Remarks/Contaminant	Sample # (lab only)
MW-208	G	GW		4/14/03	1030	4	X	X					L111205-1
MW-281	G	GW			1120	4	X	X					-v2
MW-13	G	GW			1230	4	X	X					-c3
RW-2	G	GW			1500	4	X	X					-c4

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

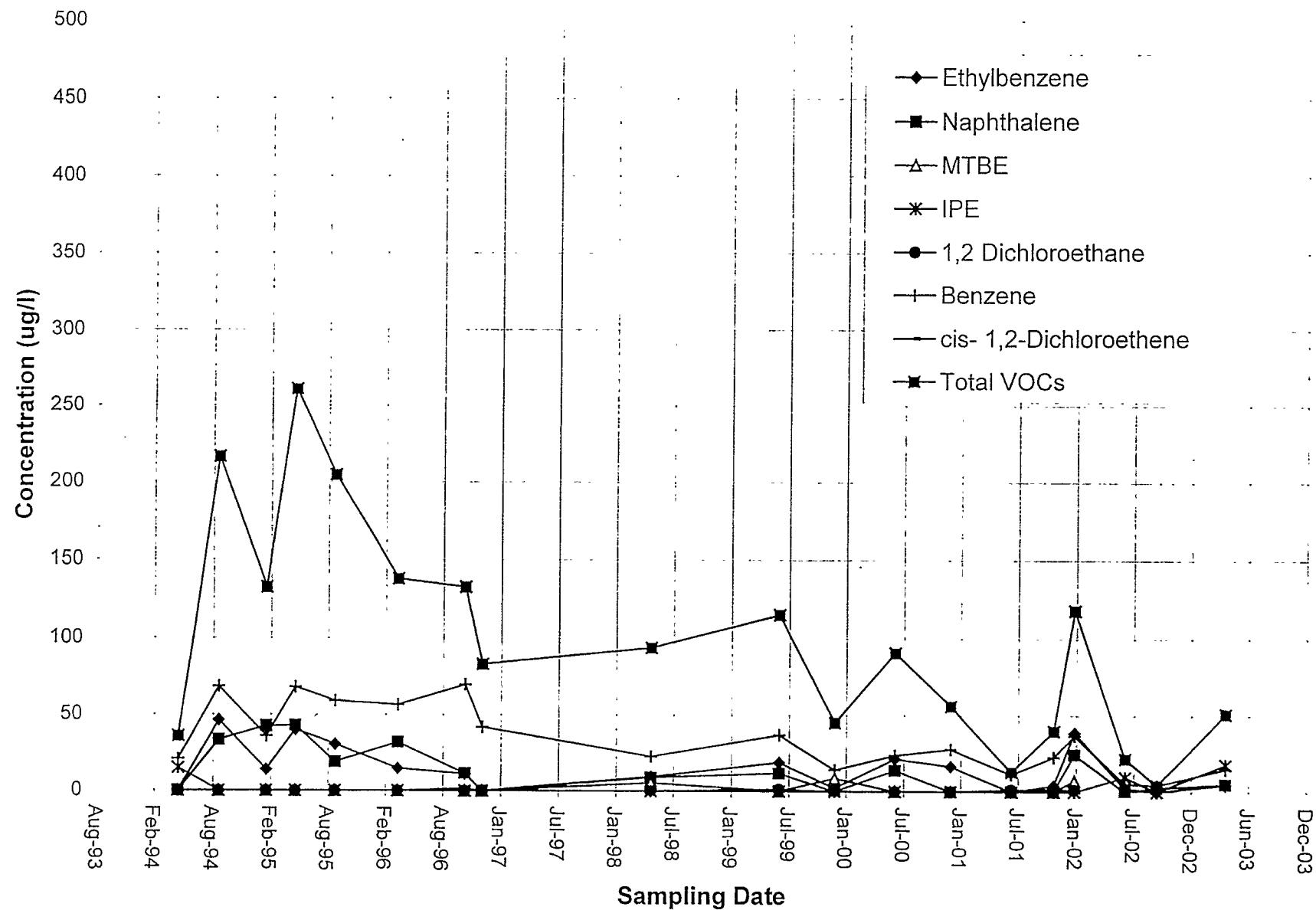
Relinquished by: (Signature) <i>M Duxter</i>	Date: 4/16/03	Time: 1630	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <i>ck</i>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4° Bottles Received: 16TB	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>JL</i>	Date: 4-17-03 Time: 09:30	pH Checked: NCF:

Appendix C

Appendix C

**Charts for Groundwater Concentrations
Versus Time for MW-23 and MW-25**

MW-23 Historic Groundwater Monitoring Results.



MW-25 Historic Groundwater Monitoring Results.

